

INDEX: VOLUME 62 (1987)

Articles, Commentaries, and Lead Reviews are identified as such; all other entries refer to book reviews.

- Able, K. P., and V. P. Bingman, The Development of Orientation and Navigation Behavior in Birds, *article*, 1
- Abram, R. J. (ed.), "Send Us a Lady Physician," 301
- Acid Rain Debate: Scientific, Economic, and Political Dimensions, ed. by E. J. Yanarella and R. H. Ihara, 116
- Adaptive Management of Renewable Resources, by C. Walters, 340
- Adler, R., and D. Farber (eds.), The Retina: A Model for Cell Biology Studies, Part II, 433
- Advances in Renal Physiology, ed. by C. J. Lote, 226
- Advances in Soil Science, ed. by B. A. Stewart, Vol. 4, 341
- Advances in the Biology of Turbellarians and Related Platyhelminthes, ed. by S. Tyler, 207
- Advances in Urban Pest Management, ed. by G. W. Bennett and J. M. Owens, 343
- Agricide: The Hidden Crisis that Affects Us All, by M. W. Fox, 223
- Ahmadjian, V., and S. Paracer, Symbiosis: An Introduction to Biological Associations, 305
- Aitkin, L., The Auditory Midbrain, 121
- Akoyunoglou, G., and H. Senger (eds.), Regulation of Chloroplast Differentiation, 198
- Albertsson, P. Å., Partition of Cell Particles and Macromolecules, 3rd ed., 74
- Alcorn, J. B., Huastec Mayan Ethnobotany, 470
- Alexandridis, E., The Pupil (transl. by T. Telger), 126
- Altered Harvest, by J. Doyle, 471
- Amazonian Rain Forests, ed. by C. F. Jordan, 457
- Ancestry of the Vertebrates, by R. P. S. Jefferies, 450
- Andersen, D. C., Below-Ground Herbivory in Natural Communities: A Review Emphasizing Fossorial Animals, *article*, 261
- Andreoli, T. E., et al. (eds.), Physiology of Membrane Disorders, 2nd ed., 128
- Animal Behavior, *book reviews*, 122, 220, 346, 464
- Animal Conflict, by F. A. Huntingford and A. K. Turner, *commentary*, 415
- Animal Extinctions: What Everyone Should Know, ed. by R. J. Hoage, 117
- Animal Societies: Theories and Facts, ed. by Y. Itô et al., *commentary*, 415
- Annual Review of Cell Biology, ed. by G. E. Palade et al., Vol. 1 (1985), 312
- Antennas and Reaction Centers of Photosynthetic Bacteria, ed. by M. E. Michel-Beyerle, 87
- Anthropic Cosmological Principle, by J. D. Barrow and F. J. Tipler, 63
- Ants of Nevada, by G. C. Wheeler and J. N. Wheeler, 103
- Approaches to New Leads for Insecticides, ed. by H. C. von Keyserlingk et al., 103
- Aquatic Microbiology, by G. Rheinheimer (transl. by N. Walker), 3rd ed., 191
- Aquatic Sciences, *book reviews*, 108, 208, 334, 453
- Arditti, J. (ed.), Orchid Biology: Reviews and Perspectives, IV, 446
- Are Australian Ecosystems Different?, ed. by J. R. Dodson and M. Westoby, 214
- Arshavsky, Y. I., et al. (eds.), Cerebellum and Rhythmical Movements, 462
- Astrocytes: Biochemistry, Physiology, and Pharmacology of Astrocytes, ed. by S. Fedoroff and A. Vernadakis, 461
- Astrocytes: Cell Biology and Pathology of Astrocytes, ed. by S. Fedoroff and A. Vernadakis, 461
- Astrocytes: Development, Morphology, and Regional Specialization of Astrocytes, ed. by S. Fedoroff and A. Vernadakis, 461
- Atlantic Alcidae, ed. by D. N. Nettleship and T. R. Birkhead, 107
- Atlas of Dinoflagellates, by J. D. Dodge, 192
- Atlas of Trichoptera of the SW Pacific-Australian Region, by A. Neboiss, 101
- Auditory Midbrain, by L. Aitkin, 121
- Autonomic and Enteric Ganglia: Transmission and Its Pharmacology, ed. by A. G. Karczmar et al., 120
- Avian Physiology, ed. by P. D. Sturkie, 4th ed., 106
- Babloyantz, A., Molecules, Dynamics, and Life, Vol. IV, 174
- Bachman's Warbler: A Species in Peril, by P. B. Hamel, 204
- Background of Ecology: Concept and Theory, by R. P. McIntosh, 113

INDEX: VOLUME 62 (1987)

Articles, Commentaries, and Lead Reviews are identified as such; all other entries refer to book reviews.

- Able, K. P., and V. P. Bingman, The Development of Orientation and Navigation Behavior in Birds, *article*, 1
- Abram, R. J. (ed.), "Send Us a Lady Physician," 301
- Acid Rain Debate: Scientific, Economic, and Political Dimensions, ed. by E. J. Yanarella and R. H. Ihara, 116
- Adaptive Management of Renewable Resources, by C. Walters, 340
- Adler, R., and D. Farber (eds.), The Retina: A Model for Cell Biology Studies, Part II, 433
- Advances in Renal Physiology, ed. by C. J. Lote, 226
- Advances in Soil Science, ed. by B. A. Stewart, Vol. 4, 341
- Advances in the Biology of Turbellarians and Related Platyhelminthes, ed. by S. Tyler, 207
- Advances in Urban Pest Management, ed. by G. W. Bennett and J. M. Owens, 343
- Agricide: The Hidden Crisis that Affects Us All, by M. W. Fox, 223
- Ahmadjian, V., and S. Paracer, Symbiosis: An Introduction to Biological Associations, 305
- Aitkin, L., The Auditory Midbrain, 121
- Akoyunoglou, G., and H. Senger (eds.), Regulation of Chloroplast Differentiation, 198
- Albertsson, P. Å., Partition of Cell Particles and Macromolecules, 3rd ed., 74
- Alcorn, J. B., Huastec Mayan Ethnobotany, 470
- Alexandridis, E., The Pupil (transl. by T. Telger), 126
- Altered Harvest, by J. Doyle, 471
- Amazonian Rain Forests, ed. by C. F. Jordan, 457
- Ancestry of the Vertebrates, by R. P. S. Jefferies, 450
- Andersen, D. C., Below-Ground Herbivory in Natural Communities: A Review Emphasizing Fossorial Animals, *article*, 261
- Andreoli, T. E., et al. (eds.), Physiology of Membrane Disorders, 2nd ed., 128
- Animal Behavior, *book reviews*, 122, 220, 346, 464
- Animal Conflict, by F. A. Huntingford and A. K. Turner, *commentary*, 415
- Animal Extinctions: What Everyone Should Know, ed. by R. J. Hoage, 117
- Animal Societies: Theories and Facts, ed. by Y. Itô et al., *commentary*, 415
- Annual Review of Cell Biology, ed. by G. E. Palade et al., Vol. 1 (1985), 312
- Antennas and Reaction Centers of Photosynthetic Bacteria, ed. by M. E. Michel-Beyerle, 87
- Anthropic Cosmological Principle, by J. D. Barrow and F. J. Tipler, 63
- Ants of Nevada, by G. C. Wheeler and J. N. Wheeler, 103
- Approaches to New Leads for Insecticides, ed. by H. C. von Keyserlingk et al., 103
- Aquatic Microbiology, by G. Rheinheimer (transl. by N. Walker), 3rd ed., 191
- Aquatic Sciences, *book reviews*, 108, 208, 334, 453
- Arditti, J. (ed.), Orchid Biology: Reviews and Perspectives, IV, 446
- Are Australian Ecosystems Different?, ed. by J. R. Dodson and M. Westoby, 214
- Arshavsky, Y. I., et al. (eds.), Cerebellum and Rhythmical Movements, 462
- Astrocytes: Biochemistry, Physiology, and Pharmacology of Astrocytes, ed. by S. Fedoroff and A. Vernadakis, 461
- Astrocytes: Cell Biology and Pathology of Astrocytes, ed. by S. Fedoroff and A. Vernadakis, 461
- Astrocytes: Development, Morphology, and Regional Specialization of Astrocytes, ed. by S. Fedoroff and A. Vernadakis, 461
- Atlantic Alcidae, ed. by D. N. Nettleship and T. R. Birkhead, 107
- Atlas of Dinoflagellates, by J. D. Dodge, 192
- Atlas of Trichoptera of the SW Pacific-Australian Region, by A. Neboiss, 101
- Auditory Midbrain, by L. Aitkin, 121
- Autonomic and Enteric Ganglia: Transmission and Its Pharmacology, ed. by A. G. Karczmar et al., 120
- Avian Physiology, ed. by P. D. Sturkie, 4th ed., 106
- Babloyantz, A., Molecules, Dynamics, and Life, Vol. IV, 174
- Bachman's Warbler: A Species in Peril, by P. B. Hamel, 204
- Background of Ecology: Concept and Theory, by R. P. McIntosh, 113

- Bacon, P. J. (ed.), Population Dynamics of Rabies in Wildlife, 108
- Bacteria in Nature, ed. by J. S. Poindexter and E. R. Leadbetter, Vol. 2 (Methods and Special Applications in Bacterial Ecology), 444
- Bacterial L-Forms, ed. by S. Madoff, 192
- Bajaj, Y. P. S. (ed.), Biotechnology in Agriculture and Forestry, Vol. 2 (Crops I), 89
- Baker, N. R., et al. (eds.), Control of Leaf Growth, 91
- Balick, M. J., Systematics and Economic Botany of the *Oenocarpus-Jessenia* (Palmae) Complex, 325
- Balls, M., and M. Bownes (eds.), Metamorphosis, 188
- Barber, J., and N. R. Baker (eds.), Photosynthetic Mechanisms and the Environment, 326
- Barker, R., and R. W. Herdt, The Rice Economy of Asia, 96
- Barrett, A. J., and G. Salvesen (eds.), Proteinase Inhibitors, 433
- Barrett, P. H., et al. (eds.), A Concordance to Darwin's *The Expression of the Emotions in Man and Animals*, 301
- Barrow, J. D., and F. J. Tipler, The Anthropic Cosmological Principle, 63
- Battley, E. H., Energetics of Microbial Growth, 443
- Bayley, P. M., and R. E. Dale (eds.), Spectroscopy and the Dynamics of Molecular Biological Systems, 228
- Bee Genetics and Breeding, ed. by T. E. Rinderer, 437
- Beginning of the Age of Dinosaurs, ed. by K. Padian, 428
- Beginnings of Birds, ed. by M. K. Hecht et al., 179
- Begon, M., et al., Ecology: Individuals, Populations, and Communities, 215
- Begoniaceae: Part I: Illustrated Key; Part II: Annotated Species List, by L. B. Smith et al., 326
- Begriff und Welt, by R. Riedl, 425
- Behavior (navigation) in birds, development of orientation and, *article*, 1
- Behavior of Teleost Fishes, ed. by T. J. Pitcher, 122
- Behavioral Biology of Killer Whales, ed. by B. C. Kirkevoid and J. S. Lockard, 465
- Below-Ground Herbivory in Natural Communities: A Review Emphasizing Fossorial Animals, by D. C. Andersen, *article*, 261
- Benirschke, K., Vanishing Animals, 306
- Bennett, G. W., and J. M. Owens (eds.), Advances in Urban Pest Management, 343
- Benzodiazepine/GABA Receptors and Chloride Channels: Structural and Functional Properties, ed. by R. W. Olsen and J. C. Venter, 309
- Bereiter-Hahn, J., et al. (eds.), Biology of the Integument, Vol. 2 (Vertebrates), 104
- Bergey's Manual of Systematic Bacteriology, ed. by P. H. A. Sneath et al., Vol. 2, 87
- Beridze, T., Satellite DNA, 179
- Berkeley, E., and D. S. Berkeley, A Yankee Botanist in the Carolinas, 302
- Berryman, A. A., Forest Insects: Principles and Practice of Population Management, 328
- Betzig, L. L., Despotism and Differential Reproduction: A Darwinian View of History, 222
- Bingman, V. P. (with K. P. Able), The Development of Orientation and Navigation Behavior in Birds, *article*, 1
- Bioburst: The Impact of Modern Biology on the Affairs of Man, by R. N. Re, 427
- Biochemical Basis of Plant Breeding, ed. by C. A. Neyra, Vol. 1 (Carbon Metabolism), 182
- Biochemistry and Physiology of Plant Disease, by R. N. Goodman et al., 194
- Biochemistry of Platelets, ed. by D. R. Phillips and M. A. Schuman, 354
- Biochemistry of Sulfur, by R. J. Huxtable, 432
- Biogéographie évolutive, by J. Blondel, 456
- Biological Effects and Dosimetry of Static and ELF Electromagnetic Fields, ed. by M. Grandolfo et al., 129
- Biological information, thermal noise and, *article*, 141
- Biological Oxidation of Nitrogen in Organic Molecules, ed. by J. W. Gorrod and L. A. Damani, 72
- Biology of Crustacea, ed. by A. J. Provenzano, Jr., Vol. 10 [Economic Aspects (Fisheries and Culture)], 335
- Biology of the Algae, by P. Sze, 91
- Biology of the Integument, ed. by J. Bereiter-Hahn et al., Vol. 2 (Vertebrates), 104
- Biomedical Sciences, *book reviews*, 127, 225, 354, 473
- Biophilosophical Implications of Inorganic and Organismic Evolution, by B. Rensch, 58
- Biophysical Basis of Excitability, by H. G. Ferreira and M. W. Marshall, 118
- Biophysical Effects of Steady Magnetic Fields, ed. by G. Maret et al., 357
- Biotechnological Challenge, ed. by S. Jacobsson et al., 227
- Biotechnology: A Handbook of Practical Formulae, by D. A. Sukatsch and A. Dziengel, 476

- Biotechnology and Ecology of Pollen, ed. by D. L. Mulcahy et al., 93
- Biotechnology in Agriculture and Forestry, ed. by Y. P. S. Bajaj, Vol. 2 (Crops I), 89
- Biotechnology in Plant Science: Relevance to Agriculture in the Eighties, ed. by M. Zaitlin et al., 90
- Bird Navigation: Has Olfactory Orientation Solved the Problem?, by K. Schmidt-Koenig, *article*, 31
- Birds of Eucalypt Forests and Woodlands: Ecology, Conservation, Management, ed. by A. Keast et al., 332
- Birds of Mount Nimba, Liberia, by P. R. Colston and K. Curry-Lindahl, 333
- Birds, the development of orientation and navigation behavior in, *article*, 1
- Black Death: A Biological Reappraisal, by G. Twigg, 124
- Blind Watchmaker, by R. Dawkins, *lead review*, 289
- Blinderman, C., The Piltdown Inquest, 349
- Blondel, J., Biogéographie évolutive, 456
- Blum, V., Vertebrate Reproduction (transl. by A. C. Whittle), 316
- Bock, G., and M. O'Connor (eds.), Human Embryo Research: Yes or No?, 468
- Bockstoe, J. R., Whales, Ice, and Men, 453
- Boethel, D. J., and R. D. Eikenbary (eds.), Interactions of Plant Resistance and Parasitoids and Predators of Insects, 102
- Bopp, M. (ed.), Plant Growth Substances 1985, 196
- Botanical Sciences, *book reviews*, 89, 193, 324, 445
- Botany of Mangroves, by P. B. Tomlinson, 447
- Boulton, A. A., et al. (eds.), Neuromethods, Series 1: Neurochemistry, Vol. 5 (Neurotransmitter Enzymes), 118
- Bowler, P. J., Theories of Human Evolution: A Century of Debate, 1844-1944, 302
- Bowman, M. J., et al. (eds.), Tidal Mixing and Plankton Dynamics, 208
- Bownes, M. (ed.), Ecdysone: From Metabolism to Regulation of Gene Expression, 185
- Brachet, J., Molecular Cytology, Vol. 1 (The Cell Cycle), 75
- Brachet, J., and H. Alexandre, Introduction to Molecular Embryology, 2nd, totally rev., and enlarged ed., 317
- Bradford, H. F., Chemical Neurobiology, 118
- Bradshaw, S. D., Ecophysiology of Desert Reptiles, 451
- Brain Theory, ed. by G. Palm and A. Aertsen, 121
- Braude, M. C., and A. M. Zimmerman (eds.), Genetic and Perinatal Effects of Abused Substances, 469
- Brehélin, M. (ed.), Immunity in Invertebrates: Cells, Molecules, and Defense Reactions, 99
- Breipohl, W. (ed.), Ontogeny of Olfaction, 462
- Britton, N. F., Reaction-Diffusion Equations and Their Applications to Biology, 427
- Brock, T. D. (ed.), Thermophiles: General, Molecular, and Applied Microbiology, 321
- Brooks, D. R., and E. O. Wiley, Evolution as Entropy: Toward a Unified Theory of Biology, 64
- Browder, L. W. (ed.), Developmental Biology: A Comprehensive Synthesis, Vol. 2 (The Cellular Basis of Morphogenesis), 188; Vol. 4 (Manipulation of Mammalian Development), 320
- Brown, B. T., et al., Grand Canyon Birds, 332
- Brown, L., et al., State of the World, 1987, 472
- Brown, R. E., and D. W. Macdonald (eds.), Social Odours in Mammals, Vol. 1, Vol. 2, 348
- Brown, R. G. B., Revised Atlas of Eastern Canadian Seabirds, 455
- Bruehl, G. W., Soilborne Plant Pathogens, 447
- Building Models for Conservation and Wildlife Management, by A. M. Starfield and A. L. Bleloch, 338
- Bullock, T. H., and W. Heiligenberg (eds.), Electoreception, 220
- Butterflies of North America: A Natural History and Field Guide, by J. A. Scott, 330
- Butterflies of the Himalaya, by M. S. Mani, 331
- Callan, H. G., Lampbrush Chromosomes, 434
- Canning, E. U., and J. Lom, The Microsporidia of Vertebrates, 333
- Cannon, W. B., The Mechanical Factors of Digestion, 302
- Canonical Analysis: A Review with Applications in Ecology, by R. Gittins, 132
- Cardiac Muscle: The Regulation of Excitation and Contraction, ed. by R. D. Nathan, 474
- Carson, B. L., et al., Toxicology and Biological Monitoring of Metals in Humans, Including Feasibility and Need, 471
- Casti, J. L., and A. Karlqvist (eds.), Complexity, Language, and Life: Mathematical Approaches, 65
- Castor, ed. by V. A. Moshkin, 194
- Casy, A. F., and R. T. Parfitt, Opioid Analgesics: Chemistry and Receptors, 355
- Catalogue of the Neotropical Squamata, Part I (Snakes), by J. A. Peters and B. Orejas-Miranda; Part II (Lizards and Amphisbaenians), by J. A. Peters and R. Donoso-Barros; rev. ed., 332

- Cayo Santiago Macaques: History, Behavior, and Biology, ed. by R. G. Rawlins and M. J. Kessler, 206
- Cell and Molecular Biology of the Cytoskeleton, ed. by J. W. Shay, 183
- Cell Biology: Basic Research and Applications, by Panel on Cell Biology et al., 312
- Cell Components, ed. by H. F. Linskens and J. F. Jackson, 73
- Cell Culture and Somatic Cell Genetics of Plants, ed. by I. K. Vasil, Vol. 3 (Plant Regeneration and Genetic Variability), 448
- Cell in Contact, ed. by G. M. Edelman and J.-P. Thiery, 77
- Cell Movement and Cell Behaviour, by J. M. Lackie, 313
- Cells and Morphogenesis: The Next 20 Years, by S. Roth, *lead review* of Prospects in Cell Biology, ed. by A. V. Grimstone et al., 50
- Cellular and Molecular Control of Direct Cell Interactions, ed. by H.-J. Marthy, 76
- Cellular Biology, *book reviews*, 73, 183, 312, 433
- Cellular Biology of Ectoenzymes, ed. by G. W. Kreutzberg et al., 76
- Cerebellum and Rhythmical Movements, ed. by Y. I. Arshavsky et al., 462
- Cerebral Lateralization: Biological Mechanisms, Associations, and Pathology, by N. Geschwind and A. M. Galaburda, 462
- CERES—Maize, ed. by C. A. Jones and J. R. Kiniry, 89
- Chadwick, C. M., and D. R. Garrod, Hormones, Receptors and Cellular Interactions in Plants, 196
- Changing Environment, by J. W. Moore, 336
- Chaos, ed. by A. V. Holden, 228
- Chapman, G. P., et al. (eds.), The Experimental Manipulation of Ovule Tissues, 198
- Chargaff, E., Serious Questions: An ABC of Skeptical Reflections, 424
- Chemical Neurobiology, by H. F. Bradford, 118
- Chemistry and Toxicology of Pyrrolizidine Alkaloids, by A. R. Mattocks, 128
- Chestnut Blight, Other *Endothia* Diseases, and the Genus *Endothia*, by M. K. Roane et al., 195
- Chimpanzees of Gombe, by J. Goodall, 464
- Christiansen, F. B., and M. W. Feldman, Population Genetics, 187
- Chromosome Structure and Function, ed. by M. S. Risley, 78
- Cladistic Biogeography, by C. J. Humphries and L. R. Parenti, 187
- Clark, J. M., and F. Matsumura (eds.), Membrane Receptors and Enzymes as Targets of Insecticidal Action, 309
- Clark, R. B., Marine Pollution, 110
- Clarkson, E. N. K., Invertebrate Palaeontology and Evolution, 2nd ed., 179
- Cocaine: A Drug and Its Social Evolution, by L. Grinspoon and J. B. Bakalar, 224
- Coccidian Parasites (Protozoa, Apicomplexa) of Artiodactyla, by N. D. Levine and V. Ivens, 100
- Coding Microbiological Data for Computers, by M. Rogosa et al., 324
- Coevolution and Systematics, ed. by A. R. Stone and D. L. Hawksworth, 436
- Cold Spring Harbor Laboratory, Molecular Biology of Development, 441
- Collatz, K.-G., and R. S. Sohal (eds.), Insect Aging: Strategies and Mechanisms, 207
- Colour Atlas of Insect Tissues Via the Flea, by M. Rothschild et al., 101
- Colston, P. R., and K. Curry-Lindahl, The Birds of Mount Nimba, Liberia, 333
- Commentary: Social and Antisocial Behavior, by A. L. Hughes [a discussion of three books in sociobiology], 415
- Commentary: The Cost of Biological Books in 1986, by F. C. Erk and S. Kelly, 411
- Community Ecology: Pattern and Process, ed. by J. Kikkawa and D. J. Anderson, 457
- Comparative Anatomy of Neurons: Homologous Neurons in the Medial Geniculate Body of the Opossum and the Cat, by D. K. Morest and J. A. Winer, 343
- Complex Systems-Operational Approaches in Neurobiology, Physics, and Computers, ed. by H. Haken, 174
- Complexity, Language, and Life: Mathematical Approaches, ed. by J. L. Casti and A. Karlqvist, 65
- Comprehensive Biochemistry, ed. by P. Laszlo, Vol. 34A (Molecular Correlates of Biological Concepts), 303
- Comprehensive Biochemistry, ed. by G. Semenza, Vol. 36 (Personal Recollections. II.), 311
- Comprehensive Insect Physiology, Biochemistry and Pharmacology, ed. by G. A. Kerkut and L. I. Gilbert, Vols. 1-13, 98
- Compression Wood in Gymnosperms, by T. E. Timell, Vols. 1, 2, 3, 449
- Computer Graphics in Biology, by R. Ransom and R. J. Matela, 359
- Comstock, A. B., Handbook of Nature Study, 178
- Concise Dictionary of Biology, ed. by E. Martin, 65

- Concordance to Darwin's *The Expression of the Emotions in Man and Animals*, ed. by P. H. Barrett et al., 301
- Conklin, J. J., and R. I. Walker (eds.), *Military Radiobiology*, 475
- Consequences of Chromosome Imbalance: Principles, Mechanisms, and Models, by C. J. Epstein, 318
- Conservation Biology: The Science of Scarcity and Diversity, ed. by M. E. Soulé, 212
- Conservation of Tidal Marshes, by F. C. Daiber, 208
- Control of Leaf Growth, ed. by N. R. Baker et al., 91
- Cooke, W. B., *The Fungi of Our Mouldy Earth (A Compilation)*, 198
- Cooperative Approaches to Research and Development of Orphan Drugs, ed. by M. H. Van Woert and E. Chung, 124
- Cost of Biological Books in 1986, by F. C. Erk and S. Kelly, *commentary*, 411
- Craker, L. E., and J. E. Simon (eds.), *Herbs, Spices, and Medicinal Plants: Recent Advances in Botany, Horticulture, and Pharmacology*, Vol. 1, 95
- Cranshaw, T. E., et al., *Mössbauer Spectroscopy and Its Applications*, 357
- Crosby, A. W., *Ecological Imperialism*, 223
- Crustacea, by F. R. Schram, 201
- Culver, S. J., and M. A. Buzas, *Distribution of Recent Benthic Foraminifera off the North American Pacific Coast from California to Baja*, 454
- Curry, G. L., and R. M. Feldman, *Mathematical Foundations of Population Dynamics*, 476
- Cussler, E. L., *Diffusion: Mass Transfer in Fluid Systems*, 131
- Cytochrome P450, ed. by P. R. Ortiz de Montelano, 73
- Cytology and Morphogenesis of Bacteria, by F. Mayer, 444
- Daiber, F. C., *Conservation of Tidal Marshes*, 208
- Danks, H. V., *Insect Dormancy: An Ecological Perspective*, 452
- Danthanarayana, W. (ed.), *Insect Flight: Dispersal and Migration*, 466
- D'Arcy, F. C., *Conservation of Tidal Marshes*, 208
- Darwin's Metaphor, by R. M. Young, 58
- Davis, B. D., *Storm over Biology*, 172
- Dawes, E. A., *Microbial Energetics*, 191
- Dawkins, R., and M. Ridley (eds.), *Oxford Surveys in Evolutionary Biology*, Vol. 1 (1984), Vol. 2, 80
- Dawkins, R., *The Blind Watchmaker*, *lead review*, 289
- De Omnibus Rebus et Quibusdam Aliis, *book reviews*, 129, 227, 356, 475
- de Wit, C. T., *On Competition*, 82
- Decker, D. J., and G. R. Goff (eds.), *Valuing Wildlife: Economic and Social Perspectives*, 458
- Defining Biology: Lectures from the 1890s, ed. by J. Maienschein, 300
- Delaporte, F., *Disease and Civilization: The Cholera in Paris, 1832* (transl. by A. Goldhammer), 221
- Delbrück, M., *Mind from Matter? An Essay on Evolutionary Epistemology*, 49
- Delbrück's Mind from Matter, by B. Glass, *lead review of Mind from Matter? An Essay on Evolutionary Epistemology*, by M. Delbrück, 49
- Deposit-feeding animals in marine sediments, ecology of, *article*, 235
- Deshmukh, I., *Ecology and Tropical Biology*, 66
- Despotism and Differential Reproduction: A Darwinian View of History, by L. L. Betzig, 222
- Determinative Mechanisms in Early Development, ed. by C. C. Wylie, 317
- Development and Management of University Research Groups, by R. V. Smith, 358
- Development of Order in the Visual System, ed. by S. R. Hilfer and J. B. Sheffield, 119
- Development of Orientation and Navigation Behavior in Birds, by K. P. Able and V. P. Bingman, *article*, 1
- Developmental Biology: A Comprehensive Synthesis, ed. by L. W. Browder, Vol. 2 (The Cellular Basis of Morphogenesis), 188; Vol. 4 (Manipulation of Mammalian Development), 320
- Developmental Biology: A Comprehensive Synthesis, ed. by M. S. Steinberg, Vol. 3 (The Cell Surface in Development and Cancer), 442
- Developmental Biology of Higher Fungi, ed. by D. Moore et al., 92
- Developmental Biology of the Bacteria, by M. Dworkin, 190
- Developmental Neurobiology of the Autonomic Nervous System, ed. by P. M. Gootman, 460
- Diatoms and Lake Acidity, ed. by J. P. Smol et al., 336
- Dictionary of Ethology and Animal Learning, ed. by R. Harré and R. Lamb, 220
- Diet, Nutrition, and Cancer: A Critical Evaluation, ed. by B. S. Reddy and L. A. Cohen, Vol. 1 (Macronutrients and Cancer), Vol. 2 (Micronutrients), 127
- Diffusion: Mass Transfer in Fluid Systems, by E. L. Cussler, 131

- Dioscorides on Pharmacy and Medicine, by J. M. Riddle, 62
- Disease and Civilization: The Cholera in Paris, 1832, by F. Delaporte (transl. by A. Goldhammer), 221
- Distribution of Recent Benthic Foraminifera off the North American Pacific Coast from California to Baja, by S. J. Culver and M. A. Buzas, 454
- Dodge, J. D., Atlas of Dinoflagellates, 192
- Dodson, J. R., and M. Westoby (eds.), Are Australian Ecosystems Different?, 214
- Dove, W. F., et al. (eds.), The Molecular Biology of *Physarum polycephalum*, 183
- Doyle, J., Altered Harvest, 471
- Drug Dependence and Emotional Behavior: Neurophysiological and Neurochemical Approaches, ed. by A. V. Valzman (transl. by L. R. Sandler), 120
- Dworkin, M., Developmental Biology of the Bacteria, 190
- Dynamic Analysis of Enzyme Systems, by K. Hayaishi and N. Sakamoto, 181
- Dynamic Partnership: Birds and Plants in Southern Australia, ed. by H. A. Ford and D. C. Paton, 115
- Dynamics of Extinction, ed. by D. K. Elliott, 66
- Dynamics of Physiologically Structured Populations, ed. by J. A. J. Metz and O. Diekmann, 340
- Dyson, F., Origins of Life, 305
- Earth and the Human Future, ed. by K. R. Smith et al., 171
- Eberhard, W. G., Sexual Selection and Animal Genitalia, 100
- Ecdysone: From Metabolism to Regulation of Gene Expression, ed. by M. Bownes, 185
- Ecological Aspects of Social Evolution, ed. by D. I. Rubenstein and R. W. Wrangham, 467
- Ecological Imperialism, by A. W. Crosby, 223
- Ecological Systems of the Geobiosphere, by H. Walter and S.-W. Breckle (transl. by S. Gruber), Vol. 2 (Tropical and Subtropical Zonobiomes), 460
- Ecology and Evolution of Darwin's Finches, by P. R. Grant, 438
- Ecology and Genetics of Host-Parasite Interactions, ed. by D. Rollinson and R. M. Anderson, 186
- Ecology and Natural History of Desert Lizards, by E. R. Pianka, 114
- Ecology and Tropical Biology, by I. Deshmukh, 66
- Ecology, hypothesis testing in, *article*, 397
- Ecology: Individuals, Populations, and Communities, by M. Begon et al., 215
- Ecology of Biological Invasions of North America and Hawaii, ed. by H. A. Mooney and J. A. Drake, 341
- Ecology of Deposit-Feeding Animals in Marine Sediments, by G. R. Lopez and J. S. Levinson, *article*, 235
- Ecology of Protozoa, by T. Fenchel, 321
- Ecology of Rocky Coasts, ed. by P. G. Moore and R. Seed, 334
- Ecology of the Forests and Woodlands of South Australia, ed. by H. R. Wallace, 115
- Ecology of Woodland Rodents, Bank Voles and Wood Mice, ed. by J. R. Flowerdew et al., 205
- Economic Aspects of Biotechnology, by A. J. Hacking, 69
- Ecophysiology of Desert Reptiles, by S. D. Bradshaw, 451
- Ecophysiology of Spiders, ed. by W. Nentwig, 452
- Ecosystem Approach to Aquatic Ecology: Mirror Lake and Its Environment, ed. by G. E. Likens, 108
- Ecosystems of the World, ed. by M. Evenari et al., Vol. 12B (Hot Deserts and Arid Shrublands, B), 211
- Edelman, G. M., and J.-P. Thiery (eds.), The Cell in Contact, 77
- Edmonds, J. A., et al., Future Atmospheric Carbon Dioxide Scenarios and Limitation Strategies, 217
- Effects of Arts, Trades, and Professions on Health and Longevity, by C. T. Thackrah, 125
- Eider Ducks in Canada, ed. by A. Reed, 212
- Eldredge, N., Unfinished Synthesis: Biological Hierarchies and Modern Evolutionary Thought, 79
- Electron Microscopy of Proteins, ed. by J. R. Harris and R. W. Horne, Vol. 5 (Viral Structure), 430
- Electroreception, ed. by T. H. Bullock and W. Heiligenberg, 220
- Elliott, D. K. (ed.), Dynamics of Extinction, 66
- Else, J. G., and P. C. Lee (eds.), Primate Evolution, Vol. 1, 451
- Embryogenesis in Angiosperms: A Developmental and Experimental Study, by V. Raghavan, 86
- Embryology of Domestic Animals, by D. M. Noden and A. de Lahunta, 85
- Emery, A. E. H., An Introduction to Recombinant DNA, 68
- Enchanted Islands, by J. Hickman, 178

- Endler, J. A., Natural Selection in the Wild, *lead review*, 295
- Endocrine and Metabolic Effects of Lithium, by J. H. Lazarus, 353
- Energetics of Microbial Growth, by E. H. Battley, 443
- Engelman, E. G., et al. (eds.), Human Hybridomas and Monoclonal Antibodies, 128
- Environmental Sciences, *book reviews*, 113, 211, 336, 455
- Enzymes of Biological Membranes, ed. by A. N. Martonosi, 2nd ed., Vol. 2 (Biosynthesis and Metabolism), 184; Vol. 3 (Membrane Transport), 308
- Enzymology of Post-Translational Modification of Proteins, ed. by R. B. Freedman and H. C. Hawkins, 71
- Eppley, R. W. (ed.), Plankton Dynamics of the Southern California Bight, 111
- Epstein, C. J., The Consequences of Chromosome Imbalance: Principles, Mechanisms, and Models, 318
- Erdő, S. L., and N. G. Bowery (eds.), GABAergic Mechanisms in the Mammalian Periphery, 345
- Erk, F. C., and S. Kelly, The Cost of Biological Books in 1986, *commentary*, 411
- Essay on the Importance of Being Nonlinear, by B. J. West, 131
- Estrada, A., and T. H. Fleming (eds.), Frugivores and Seed Dispersal, 458
- Estuarine Cohesive Sediment Dynamics, ed. by A. J. Mehta, 209
- Ethnic Differences in Reactions to Drugs and Xenobiotics, ed. by W. Kalow et al., 124
- European Garden Flora, ed. by S. M. Walters et al., Vol. 1 [Pteridophyta, Gymnospermae, Angiospermae—Monocotyledons (Part I)], 197
- Evans, D. O., and P. P. Rotar, *Sesbania* in Agriculture, 450
- Evenari, M., et al. (eds.), Ecosystems of the World, Vol. 12B (Hot Deserts and Arid Shrublands, B), 211
- Evered, D., and M. O'Connor (eds.), Silicon Biochemistry, 182
- Evolution and Classification: The Reformation of Cladism, by M. Ridley, *lead review*, 293
- Evolution and Morphogenesis, ed. by J. Mlíkovský and V. J. A. Novák, Vol. 1, Vol. 2, 80
- Evolution as a Religion, by M. Midgley, 57
- Evolution as Entropy: Toward a Unified Theory of Biology, by D. R. Brooks and E. O. Wiley, 64
- Evolution: Selected Papers, by S. Wright, ed. by W. Provine, 435
- Evolution through Group Selection, by V. C. Wynne-Edwards, 439
- Evolutionary Biology, ed. by M. K. Hecht et al., Vol. 20, 82; Vol. 21, 437
- Evolutionary Biology of Primitive Fishes, ed. by R. E. Foreman et al., 112
- Evolutionary Processes and Theory, ed. by S. Karlin and E. Nevo, 316
- Evolving Hierarchical Systems: Their Structure and Representation, by S. N. Salthe, 61
- Experimental Manipulation of Ovule Tissues, ed. by G. P. Chapman et al., 198
- Experiments in Molecular Biology, ed. by R. J. Slater, 69
- Fa, J. E., Use of Time and Resources by Provisioned Troops of Monkeys: Social Behaviour, Time and Energy in the Barbary Macaque (*Macaca sylvanus* L.) at Gibraltar, 107
- Factors in Adult Growth, ed. by A. M. Wenner, 319
- Fedoroff, S., and A. Vernadakis (eds.), Astrocytes: Development, Morphology, and Regional Specialization of Astrocytes, 461
- , and — (eds.), Astrocytes: Biochemistry, Physiology, and Pharmacology of Astrocytes, 461
- , and — (eds.), Astrocytes: Cell Biology and Pathology of Astrocytes, 461
- Felger, R. S., and M. B. Moser, People of the Desert and Sea, 126
- Fenchel, T., Ecology of Protozoa, 321
- Ferreira, H. G., and M. W. Marshall, The Biophysical Basis of Excitability, 118
- Field Guide to Coastal Wetland Plants of the Northeastern United States, by R. W. Tiner, Jr., 453
- Field Guide to Prehistoric Life, by D. Lambert, 65
- Field Guide to the Ferns and Other Pteridophytes of Georgia, by L. H. Snyder, Jr. and J. G. Bruce, 328
- Fifty-One Landmark Articles in Medicine, ed. by H. S. Meyer and G. D. Lundberg, 127
- Fire Ants and Leaf-Cutting Ants: Biology and Management, ed. by C. L. Lofgren and R. K. Vander Meer, 202
- Fisher, J. W. (ed.), Kidney Hormones, Vol. III, 356
- Fishes of the Okefenokee Swamp, by J. Laerm and B. J. Freeman, 335
- Fiskum, G. (ed.), Mitochondrial Physiology and Pathology, 184
- Flamingo's Smile, by S. J. Gould, 425
- Fleck, R. F., Henry Thoreau and John Muir among the Indians, 172

- Floristic Regions of the World, by A. Takhtajan (transl. by T. J. Crovello), 193
- Flowerdew, J. R., et al. (eds.), The Ecology of Woodland Rodents, Bank Voles and Wood Mice, 205
- Fluctuating Enzyme, ed. by G. R. Welch, 309
- Food Shortage, Climatic Variability, and Epidemic Disease in Preindustrial Europe, by J. D. Post, 63
- For Tyros & Laics, *book reviews*, 65, 178, 306
- Forbes, G. B., Human Body Composition, 468
- Ford, H. A., and D. C. Paton (eds.), The Dynamic Partnership: Birds and Plants in Southern Australia, 115
- Fordham, B. G., Miocene-Pleistocene Planktic Foraminifers from D.S.D.P. Sites 208 and 77, and Phylogeny and Classification of Cenozoic Species, 68
- Foreman, R. E., et al. (eds.), Evolutionary Biology of Primitive Fishes, 112
- Forest Insects: Principles and Practice of Population Management, by A. A. Berryman, 328
- Fossorial animals, below-ground herbivory in, *article*, 261
- Fox, M. W., Agricide: The Hidden Crisis that Affects Us All, 223
- Fox, S. W. (ed.), Selforganization, 173
- Franks, L. M., and N. M. Teich (eds.), Introduction to the Cellular and Molecular Biology of Cancer, 473
- Fraser, F. C., and J. J. Nora, Genetics of Man, 2nd ed., 122
- Frayser, S. G., Varieties of Sexual Experience: An Anthropological Perspective on Human Sexuality, 125
- Freedman, R. B., and H. C. Hawkins (eds.), The Enzymology of Post-Translational Modification of Proteins, 71
- Freshwater Chaetophorales of New Zealand, by P. Sarma, 92
- Friberg, L., et al., Handbook on the Toxicology of Metals, 2nd ed., Vol. 1 (General Aspects), Vol. 2 (Specific Metals), 474
- Frontal Lobes, by D. T. Stuss and D. F. Benson, 355
- Frugivores and Seed Dispersal, ed. by A. Estrada and T. H. Fleming, 458
- Functional Biology of Nematodes, by D. A. Whar-ton, 100
- Fungi of Our Mouldy Earth (A Compilation), by W. B. Cooke, 198
- Furness, R. W., and P. Monaghan, Seabird Ecology, 454
- Fusarium* Species: Their Biology and Toxicology, by A. Z. Joffe, 323
- Future Atmospheric Carbon Dioxide Scenarios and Limitation Strategies, by J. A. Edmonds et al., 217
- GABAergic Mechanisms in the Mammalian Periphery, ed. by S. L. Erdö and N. G. Bowery, 345
- Gall, J. G. (ed.), The Molecular Biology of Ciliated Protozoa, 429
- Game Management, by A. Leopold, 333
- Gardner, R. L., and P. A. Lawrence (eds.), Single Cell Marking and Cell Lineage in Animal Development, 441
- Gavagai! or the Future of the Animal Language Controversy, by D. Premack, 347
- Gene Structure and Expression, by J. D. Hawkins, 78
- General Biology, *book reviews*, 64, 177, 304, 425
- Genes, Proteins, and Cellular Aging, ed. by R. Holliday, 77
- Genetic and Perinatal Effects of Abused Substances, ed. by M. C. Braude and A. M. Zimmerman, 469
- Genetic Differentiation and Dispersal in Plants, ed. by P. Jacquard et al., 79
- Genetic Engineering 5, ed. by P. W. J. Rigby, 438
- Genetic Switch: Gene Control and Phage Lambda, by M. Ptashne, 77
- Genetic Variation and Its Maintenance with Particular Reference to Tropical Populations, ed. by D. F. Roberts and G. F. De Stefano, 440
- Genetics & Evolution, *book reviews*, 77, 185, 314, 435
- Genetics and Molecular Biology, by R. Schleif, 69
- Genetics, Development, and Evolution, ed. by J. P. Gustafson et al., 185
- Genetics of Man, by F. C. Fraser and J. J. Nora, 2nd ed., 122
- Germ Line-Soma Differentiation, ed. by W. Hennig, 189
- Geschwind, N., and A. M. Galaburda, Cerebral Lateralization: Biological Mechanisms, Associations, and Pathology, 462
- Gibbs, P. E. (ed.), Proceedings of the Nineteenth European Marine Biology Symposium, Plymouth, Devon, U. K., 16-21 September, 1984, 112
- Gilbertson, D. D., et al., Practical Ecology for Geography and Biology: Survey, Mapping and Data Analysis, 337
- Gittins, R., Canonical Analysis: A Review with Applications in Ecology, 132
- Givnish, T. J. (ed.), On the Economy of Plant Form and Function, 327

- Glass, B., A Quartet of Volumes on Genetics and Evolution, *lead review of* Sewall Wright and Evolutionary Biology, by W. B. Provine, 287
- , Delbrück's Mind from Matter, *lead review of* Mind from Matter? An Essay on Evolutionary Epistemology, by M. Delbrück, 49
- Glucocorticoid Hormone: Mechanisms of Action, ed. by Y. Sakamoto and F. Isohashi, 226
- God and Nature, ed. by D. C. Lindberg and R. L. Numbers, 56
- Goldsmith, D., Nemesis: The Death-Star and Other Theories of Mass Extinction, 68
- Goodall, J., The Chimpanzees of Gombe, 464
- Goodin, J. R., and D. K. Northington (eds.), Plant Resources of Arid and Semiarid Lands: A Global Perspective, 114
- Goodman, R. N., et al., The Biochemistry and Physiology of Plant Disease, 194
- Goodrich, E. S., Studies on the Structure and Development of Vertebrates, 104
- Gootman, P. M. (ed.), Developmental Neurobiology of the Autonomic Nervous System, 460
- Gorczyński, R. M. (ed.), Receptors in Cellular Recognition and Developmental Processes, 435
- Gorrod, J. W., and L. A. Damani (eds.), Biological Oxidation of Nitrogen in Organic Molecules, 72
- Gosliner, T., Nudibranchs of Southern Africa, 451
- Gotch, A. F., Reptiles—Their Latin Names Explained, 105
- Gould, S. J., The Flamingo's Smile, 425
- Grand Canyon Birds, by B. T. Brown et al., 332
- Grandolfo, M., et al. (eds.), Biological Effects and Dosimetry of Static and ELF Electromagnetic Fields, 129
- Grant, P. R., Ecology and Evolution of Darwin's Finches, 438
- Grant, W. E., Systems Analysis and Simulation in Wildlife and Fisheries Sciences, 214
- Green, M. B., and P. A. Hedin (eds.), Natural Resistance of Plants to Pests: Roles of Allelochemicals, 199
- Griffin, M. P., and P. D. Taylor, Science and Scientists: Where Are We Going?, *lead review of* Science and Beyond, ed. by S. Rose and L. Appignanesi, 52
- Grimstone, A. V., et al. (eds.), Prospects in Cell Biology, 50
- Grinspoon, L. (ed.), The Long Darkness, 176
- Grinspoon, L., and J. B. Bakalar, Cocaine: A Drug and Its Social Evolution, 224
- Growth and Development, by R. E. Ulanowicz, 337
- Growth and Form of Modular Organisms, ed. by J. L. Harper et al., 443
- Guide to the Birds of Colombia, by S. L. Hilty and W. L. Brown, 106
- Guide to the Vegetation of Britain and Europe, by O. Polunin and M. Walters, 96
- Gustafson, J. P., et al. (eds.), Genetics, Development, and Evolution, 185
- Habener, J. F. (ed.), Molecular Cloning of Hormone Genes, 431
- Hacking, A. J., Economic Aspects of Biotechnology, 69
- Haken, H. (ed.), Complex Systems—Operational Approaches in Neurobiology, Physics, and Computers, 174
- Hamel, P. B., Bachman's Warbler: A Species in Peril, 204
- Hamerstrom, F., Harrier: Hawk of the Marshes, 204
- Han, H., and Y. Hongyuan (eds.), Haploids of Higher Plants in Vitro, 95
- Handbook of Bioengineering, ed. by R. Skalak and S. Chien, 227
- Handbook of Nature Study, by A. B. Comstock, 178
- Handbook on the Toxicology of Metals, by L. Friberg et al., 2nd ed., Vol. 1 (General Aspects), Vol. 2 (Specific Metals), 474
- Haploids of Higher Plants in Vitro, ed. by H. Han and Y. Hongyuan, 95
- Harper, J. L., et al. (eds.), The Growth and Form of Modular Organisms, 443
- (eds.), Modular Organisms: Case Studies of Growth and Form, 443
- Harré, R., and R. Lamb (eds.), The Dictionary of Ethology and Animal Learning, 220
- Harrier: Hawk of the Marshes, by F. Hamerstrom, 204
- Harris, J. R., and R. W. Horne (eds.), Electron Microscopy of Proteins, Vol. 5 (Viral Structure), 430
- Hawkins, J. D., Gene Structure and Expression, 78
- Hawley, A. H., Human Ecology: A Theoretical Essay, 471
- Hayashi, K., and N. Sakamoto, Dynamic Analysis of Enzyme Systems, 181
- Hayman, P., et al., Shorebirds, 332
- Head, P. C. (ed.), Practical Estuarine Chemistry: A Handbook, 109
- Hecht, M. K., et al. (eds.), Evolutionary Biology, Vol. 20, 82; Vol. 21, 437
- (eds.), The Beginnings of Birds, 179
- Hennig, W. (ed.), Germ Line-Soma Differentiation, 189
- Henry, J. D., Red Fox: The Catlike Canine, 205

- Henry Thoreau and John Muir among the Indians, by R. F. Fleck, 172
- Herbivory (below-ground) in natural communities, *article*, 261
- Herbs, Spices, and Medicinal Plants: Recent Advances in Botany, Horticulture, and Pharmacology, ed. by L. E. Craker and J. E. Simon, Vol. 1, 95
- Heredity of Behavior Disorders in Adults and Children, by S. G. Vandenberg et al., 470
- Hickman, J., *The Enchanted Islands*, 178
- Hicks, J. (ed.), *Yeast Cell Biology*, 88
- Hierarchical Concept of Ecosystems, by R. V. O'Neill et al., 213
- Hilfer, S. R., and J. B. Sheffield (eds.), *Development of Order in the Visual System*, 119
- Hilty, S. L., and W. L. Brown, *A Guide to the Birds of Colombia*, 106
- Hinz, H.-J. (ed.), *Thermodynamic Data for Biochemistry and Biotechnology*, 131
- History of Embryology, ed. by T. J. Horder et al., 83
- History, Philosophy & Ethics, *book reviews*, 56, 171, 299, 423
- Hoage, R. J. (ed.), *Animal Extinctions: What Everyone Should Know*, 117
- Hocutt, C. H., and E. O. Wiley (eds.), *The Zoogeography of North American Freshwater Fishes*, 210
- Hoffmann, G. W., and T. Hraba (eds.), *Immunology and Epidemiology*, 225
- Hoffmeister, D. F., *Mammals of Arizona*, 333
- Hoiden, A. V. (ed.), *Chaos*, 228
- Holliday, R. (ed.), *Genes, Proteins, and Cellular Aging*, 77
- Honeybee Mites and Their Control—A Selected Annotated Bibliography, by International Bee Research Association, 452
- Honig, G. R., and J. G. Adams III, *Human Hemoglobin Genetics*, 315
- Horder, T. J., et al. (eds.), *A History of Embryology*, 83
- Hormone Binding Sites in Plants, by M. Venis, 325
- Hormones, Receptors and Cellular Interactions in Plants, by C. M. Chadwick and D. R. Garrod, 196
- Horn, G., *Memory, Imprinting, and the Brain*, 219
- Horowitz, N. H., *To Utopia and Back: The Search for Life in the Solar System*, 304
- How To Deep-Freeze a Mammoth, by B. Kurtén, 67
- Huastec Mayan Ethnobotany, by J. B. Alcorn, 470
- Huemer, R. P. (ed.), *The Roots of Molecular Medicine*, 225
- Hughes, A. L., *Social and Antisocial Behavior [a discussion of three books in sociobiology]*, *commentary*, 415
- Hull, D. L., *A Quartet of Volumes on Genetics and Evolution*, *lead review of The Blind Watchmaker*, by R. Dawkins, 289
- Human Biology & Health, *book reviews*, 122, 221, 349, 468
- Human Body Composition, by G. B. Forbes, 468
- Human Ecology: A Theoretical Essay, by A. H. Hawley, 471
- Human Embryo Research: Yes or No?, ed. by G. Bock and M. O'Connor, 468
- Human Hemoglobin Genetics, by G. R. Honig and J. G. Adams III, 315
- Human Hybridomas and Monoclonal Antibodies, ed. by E. G. Engelman et al., 128
- Humphries, C. J., and L. R. Parenti, *Cladistic Biogeography*, 187
- Hunger, by J. Le Magnen, 222
- Huntingford, F. A., and A. K. Turner, *Animal Conflict*, *commentary*, 415
- Huxtable, R. J., *Biochemistry of Sulfur*, 432
- Hypothesis Testing in Ecology: Psychological Aspects and the Importance of Theory Maturation, by C. Loehle, *article*, 397
- Illuminations: A Bestiary, by R. W. Purcell and S. J. Gould, 306
- Illustrated Encyclopedia of Dinosaurs, by D. Norman, 428
- Immunity in Invertebrates: Cells, Molecules, and Defense Reactions, ed. by M. Brehélin, 99
- Immunology and Epidemiology, ed. by G. W. Hoffmann and T. Hraba, 225
- Indian Ocean: Biology of Benthic Marine Organisms, ed. by M.-F. Thompson et al., 111
- Indo-Pacific Fish Biology, ed. by T. Uyeno et al., 336
- Inoué, S., *Video Microscopy*, 129
- Insect Aging: Strategies and Mechanisms, ed. by K.-G. Collatz and R. S. Sohal, 207
- Insect Dormancy: An Ecological Perspective, by H. V. Danks, 452
- Insect Flight: Dispersal and Migration, ed. by W. Danthanarayana, 466
- Insect-Plant Interactions, ed. by J. R. Miller and T. A. Miller, 329
- Interactions of Plant Resistance and Parasitoids and Predators of Insects, ed. by D. J. Boethel and R. D. Eikenbary, 102

- International Bee Research Association, Honeybee Mites and Their Control—A Selected Annotated Bibliography, 452
- Introduction to Behavioural Ecology, by J. R. Krebs and N. B. Davies, 2nd ed., 339
- Introduction to Biostatistics, by R. R. Sokal and F. J. Rohlf, 2nd ed., 476
- Introduction to Genetic Toxicology, by J. Moutschen (transl. by J. Moutschen), 82
- Introduction to Molecular Embryology, by J. Brachet and H. Alexandre, 2nd, totally rev., and enlarged ed., 317
- Introduction to Recombinant DNA, by A. E. H. Emery, 68
- Introduction to the Cellular and Molecular Biology of Cancer, ed. by L. M. Franks and N. M. Teich, 473
- Introduction to the Orchids of Mexico, by L. A. Wiard, 448
- Invertebrate Palaeontology and Evolution, by E. N. K. Clarkson, 2nd ed., 179
- Involuntary Sterilization in the United States: A Surgical Solution, by P. R. Reilly, *article*, 153
- Ionic Currents in Development, ed. by R. Nuccitelli, 85
- Iron-Sulfur Protein Research, ed. by H. Matsubara et al., 432
- Irvine, D. R. F., Progress in Sensory Physiology, Vol. 7 (The Auditory Brainstem), 219
- Itô, Y., et al. (eds.), Animal Societies: Theories and Facts, *commentary*, 415
- Jackson, J. B. C., et al. (eds.), Population Biology and Evolution of Clonal Organisms, 212
- Jacobsson, S., et al. (eds.), The Biotechnological Challenge, 227
- Jacquard, P., et al. (eds.), Genetic Differentiation and Dispersal in Plants, 79
- Jakucs, P. (ed.), Results of "Síkfőkút Project" 1: Structure, Primary Production and Mineral Cycling (transl. by I. Kecskés), 341
- Jefferies, R. P. S., The Ancestry of the Vertebrates, 450
- Jennings, D. H., and A. J. Trewavas (eds.), Plasticity in Plants, 193
- Joffe, A. Z., *Fusarium* Species: Their Biology and Toxicology, 323
- John Xántus: The Fort Tejon Letters 1857-1859, by A. Zwinger, 172
- Jørgensen, P. A., The Pheasants of the World, 203
- Johnson, H. A., Thermal Noise and Biological Information, *article*, 141
- Jones, C. A., and J. R. Kiriary (eds.), CERES—Maize, 89
- Jordan, C. F. (ed.), Amazonian Rain Forests, 457
- Kabat, E. A., et al., Sequences of Proteins of Immunological Interest, 4th ed., 431
- Kahle, J. B. (ed.), Women in Science: A Report from the Field, 424
- Kalow, W., et al. (eds.), Ethnic Differences in Reactions to Drugs and Xenobiotics, 124
- Kameraz, A. Ya. (ed.), Systematics, Breeding and Seed Production of Potatoes (transl. by V. S. Kothekar), 94
- Kandel, E. R., and J. H. Schwartz (eds.), Principles of Neural Science, 2nd ed., 117
- Karczmar, A. G., et al. (eds.), Autonomic and Enteric Ganglia: Transmission and Its Pharmacology, 120
- Karlin, S., and E. Nevo (eds.), Evolutionary Processes and Theory, 316
- Karlin, S., and S. Lessard, Theoretical Studies on Sex Ratio Evolution, 82
- Katz, M. J., Templets and the Explanation of Complex Patterns, 318
- Kaufman, L., and K. Mallory (eds.), The Last Extinction, 426
- Keast, A., et al. (eds.), Birds of Eucalypt Forests and Woodlands: Ecology, Conservation, Management, 332
- Kelly, S. (with F. C. Erk), The Cost of Biological Books in 1986, *commentary*, 411
- Kendrick, R. E., and G. H. M. Kronenberg (eds.), Photomorphogenesis in Plants, 445
- Kerkut, G. A., and L. I. Gilbert (eds.), Comprehensive Insect Physiology, Biochemistry and Pharmacology, Vols. 1-13, 98
- Kidney Hormones, ed. by J. W. Fisher, Vol. III, 356
- Kikkawa, J., and D. J. Anderson (eds.), Community Ecology: Pattern and Process, 457
- Kimura, M., The Neutral Theory of Molecular Evolution, 435
- King, B. H., Offspring Sex Ratios in Parasitoid Wasps, *article*, 367
- Kirk, J. T. O., Light and Photosynthesis in Aquatic Ecosystems, 110
- Kirkevoid, B. C., and J. S. Lockard (eds.), Behavioral Biology of Killer Whales, 465
- Klein, R. S. (ed.), Science and Society in Early America: Essays in Honor of Whitfield J. Bell, Jr., 423
- Koch, F., and G. Koch, The Molecular Biology of Poliovirus, 311

- Krebs, J. R., and N. B. Davies, *An Introduction to Behavioural Ecology*, 2nd ed., 339
- Kreutzberg, G. W., et al. (eds.), *Cellular Biology of Ectoenzymes*, 76
- Krysan, J. L., and T. A. Miller (eds.), *Methods for the Study of Pest *Diabrotica**, 215
- Kurtén, B., *How to Deep-Freeze a Mammoth*, 67
- Lackie, J. M., *Cell Movement and Cell Behaviour*, 313
- Laerm, J., and B. J. Freeman, *Fishes of the Okefenokee Swamp*, 335
- Lambert, D., *The Field Guide to Prehistoric Life*, 65
- Lampbrush Chromosomes, by H. G. Callan, 434
- Landauer, L. B., *Scammon: Beyond the Lagoon*, 453
- Larval Growth, ed. by A. M. Wenner, 85
- Last Extinction, ed. by L. Kaufman and K. Mal-lory, 426
- Laszlo, P. (ed.), *Comprehensive Biochemistry*, Vol. 34A (Molecular Correlates of Biological Concepts), 303
- Lawlor, D. W., *Photosynthesis: Metabolism, Control, and Physiology*, 448
- Lazarus, J. H., *Endocrine and Metabolic Effects of Lithium*, 353
- Le Magnen, J., *Hunger*, 222
- Leafhoppers and Planthoppers, ed. by L. R. Nault and J. G. Rodriguez, 201
- Learning and Memory: A Biological View, ed. by J. L. Martinez, Jr. and R. P. Kesner, 347
- Lendrem, D., *Modelling in Behavioural Ecology: An Introductory Text*, 465
- L'environnement au temps de la préhistoire, by J. Renault-Miskovsky, 349
- Leopold, A., *Game Management*, 333
- Leporé, F., et al. (eds.), *Two Hemispheres-One Brain*, 345
- Leuenberger, B. E., *Pereskia* (Cactaceae), 327
- Levine, N. D., and V. Ivens, *The Coccidian Parasites (Protozoa, Apicomplexa) of Artiodactyla*, 100
- Levinton, J. S. (with G. R. Lopez), *Ecology of Deposit-Feeding Animals in Marine Sediments*, article, 235
- Lichtwardt, R. W., *The Trichomycetes*, 198
- Light and Life Processes, by J. J. Wolken, 428
- Light and Photosynthesis in Aquatic Ecosystems, by J. T. O. Kirk, 110
- Likens, G. E. (ed.), *An Ecosystem Approach to Aquatic Ecology: Mirror Lake and Its Environment*, 108
- Lillie, D. W., *Our Radiant World*, 356
- Lindberg, D. C., and R. L. Numbers (eds.), *God and Nature*, 56
- Lindow Man: *The Body in the Bog*, by I. M. Stead et al., 469
- Linskens, H. F., and J. F. Jackson (eds.), *Nuclear Magnetic Resonance*, 328
- , and — (eds.), *Cell Components*, 73
- Lipids: *Chemistry, Biochemistry and Nutrition*, by J. F. Mead et al., 310
- Living Together: *The Biology of Animal Parasitism*, by W. Trager, 200
- Lloyd, C., *The Traveling Naturalists*, 60
- Loehle, C., *Hypothesis Testing in Ecology: Psychological Aspects and the Importance of Theory Maturation*, article, 397
- Lofgren, C. S., and R. K. Vander Meer (eds.), *Fire Ants and Leaf-Cutting Ants: Biology and Management*, 202
- Long Darkness, ed. by L. Grinspoon, 176
- Looking at Vertebrates, by E. Rogers, 202
- Lopez, G. R., and J. S. Levinton, *Ecology of Deposit-Feeding Animals in Marine Sediments*, article, 235
- Lote, C. J. (ed.), *Advances in Renal Physiology*, 226
- Madoff, S. (ed.), *The Bacterial L-Forms*, 192
- Maienschein, J. (ed.), *Defining Biology: Lectures from the 1890s*, 300
- Major Topics in Primate and Human Evolution, ed. by B. Wood et al., 352
- Mammalian Proteases: *A Glossary and Bibliography*, by J. K. McDonald and A. J. Barrett, Vol. 2 (Exopeptidases), 72
- Mammals of Arizona, by D. F. Hoffmeister, 333
- Mangel, M., et al. (eds.), *Pest Control: Operations and Systems Analysis in Fruit Fly Management*, 329
- Mani, M. S., *Butterflies of the Himalaya*, 331
- Marani, E., *Topographic Histochemistry of the Cerebellum*, 344
- Maret, G., et al. (eds.), *Biophysical Effects of Steady Magnetic Fields*, 357
- Margalith, P. Z., *Steroid Microbiology*, 324
- Marine Pollution, by R. B. Clark, 110
- Marine sediments, *ecology of deposit-feeding animals in*, article, 235
- Marthy, H. J. (ed.), *Cellular and Molecular Control of Direct Cell Interactions*, 76
- Martin, E. (ed.), *Concise Dictionary of Biology*, 65
- Martinez, J. L., Jr., and R. P. Kesner (eds.), *Learning and Memory: A Biological View*, 347

- Martonosi, A. N. (ed.), *The Enzymes of Biological Membranes*, 2nd ed., Vol. 2 (Biosynthesis and Metabolism), 184; Vol. 3 (Membrane Transport), 308
- Masani, P. (ed.), *Norbert Wiener: Collected Works with Commentaries*, Vol. IV (Cybernetics, Science, and Society; Ethics, Aesthetics, and Literary Criticism; Book Reviews and Obituaries), 172
- Mathematical Foundations of Population Dynamics, by G. L. Curry and R. M. Feldman, 476
- Matsubara, H., et al. (eds.), *Iron-Sulfur Protein Research*, 432
- Mattocks, A. R., *Chemistry and Toxicology of Pyrrolizidine Alkaloids*, 128
- Maybury, R. (ed.), *Violent Forces of Nature*, 228
- Mayer, F., *Cytology and Morphogenesis of Bacteria*, 444
- McDonagh, J. (ed.), *Plasma Fibronectin: Structure and Function*, 72
- McDonald, J. K., and A. J. Barrett, *Mammalian Proteases: A Glossary and Bibliography*, Vol. 2 (Exopeptidases), 72
- McGowan, J. C., and A. Mellors, *Molecular Volumes in Chemistry and Biology: Applications Including Partitioning and Toxicity*, 178
- McIntosh, R. P., *The Background of Ecology: Concept and Theory*, 113
- Mead, J. F., et al., *Lipids: Chemistry, Biochemistry and Nutrition*, 310
- Mechanical Factors of Digestion, by W. B. Cannon, 302
- Mechanisms in Insect Olfaction, ed. by T. L. Payne et al., 220
- Mechanisms of DNA Damage and Repair, ed. by M. G. Simic et al., 70
- Mechanistic Models of Asymmetric Reductions, by A. Ohno and S. Ushida, 358
- Meerburg, D. J. (ed.), *Salmonid Age at Maturity*, 336
- Mehta, A. J. (ed.), *Estuarine Cohesive Sediment Dynamics*, 209
- Membrane Receptors and Enzymes as Targets of Insecticidal Action, ed. by J. M. Clark and F. Matsumura, 309
- Memory, Imprinting, and the Brain, by G. Horn, 219
- Metal Ions in Biological Systems, ed. by H. Sigel, Vol. 20 (Concepts on Metal Ion Toxicity), 130
- Metamorphosis, ed. by M. Balls and M. Bownes, 188
- Methods for the Study of Pest *Diabrotica*, ed. by J. L. Krysan and T. A. Miller, 215
- Methods in Plant Ecology, ed. by P. D. Moore and S. B. Chapman, 2nd ed., 199
- Metz, J. A. J., and O. Diekmann (eds.), *The Dynamics of Physiologically Structured Populations*, 340
- Meyer, H. S., and G. D. Lundberg (eds.), *Fifty-One Landmark Articles in Medicine*, 127
- Michel-Beyerle, M. E. (ed.), *Antennas and Reaction Centers of Photosynthetic Bacteria*, 87
- Microbial Autecology, ed. by R. L. Tate III, 459
- Microbial Energetics, by E. A. Dawes, 191
- Microbial Energy Transduction, ed. by D. C. Youvan and F. Daldal, 307
- Microbial Lectins and Agglutinins, ed. by D. Mirelman, 88
- Microbial World, by R. Y. Stanier et al., 5th ed., 88
- Microbiology, *book reviews*, 87, 190, 321, 443
- Microsporidia of Vertebrates, by E. U. Canning and J. Lom, 333
- Midgley, M., *Evolution as a Religion*, 57
- Miflin, B. J. (ed.), *Oxford Surveys of Plant Molecular and Cell Biology*, Vol. 1, Vol. 2 (1985), 75
- Migrations in Prehistory, by I. Rouse, 350
- Military Radiobiology, ed. by J. J. Conklin and R. I. Walker, 475
- Miller, J. R., and T. A. Miller (eds.), *Insect-Plant Interactions*, 329
- Mind from Matter? An Essay on Evolutionary Epistemology, by M. Delbrück, 49
- Miocene-Pleistocene Planktic Foraminifers from D.S.D.P. Sites 208 and 77, and Phylogeny and Classification of Cenozoic Species, by B. G. Fordham, 68
- Mirelman, D. (ed.), *Microbial Lectins and Agglutinins*, 88
- Mitochondrial Physiology and Pathology, ed. by G. Fiskum, 184
- Mitsch, W. J., and J. G. Gosselink, *Wetlands*, 210
- Mlíkovský, J., and V. J. A. Novák (eds.), *Evolution and Morphogenesis*, Vol. 1, Vol. 2, 80
- Modelling in Behavioural Ecology: An Introductory Text, by D. Lendrem, 465
- Modular Organisms: Case Studies of Growth and Form, ed. by J. L. Harper et al., 443
- Molecular Biology, *book reviews*, 68, 179, 307, 429
- Molecular Biology of Bacterial Growth, ed. by M. Schaechter et al., 190
- Molecular Biology of Ciliated Protozoa, ed. by J. G. Gall, 429
- Molecular Biology of Development, Cold Spring Harbor Laboratory, 441
- Molecular Biology of *Physarum polycephalum*, ed. by W. F. Dove et al., 183

- Molecular Biology of Poliovirus, by F. Koch and G. Koch, 311
- Molecular Biology of the Photosynthetic Apparatus, ed. by K. E. Steinback et al., 90
- Molecular Cloning of Hormone Genes, ed. by J. F. Habener, 431
- Molecular Cytology, by J. Brachet, Vol. 1 (The Cell Cycle), 75
- Molecular Mechanism of Photoreception, ed. by H. Stieve, 119
- Molecular Volumes in Chemistry and Biology: Applications Including Partitioning and Toxicity, by J. C. McGowan and A. Mellors, 178
- Molecules, Dynamics, and Life, by A. Babloyantz, Vol. IV, 174
- Mollusca, ed. by K. M. Wilbur, Vol. 9 (Neurobiology and Behavior, Part 2), 344
- Monograph on Polyclad Turbellaria, by S. Prudhoe, 206
- Mooney, H. A., and J. A. Drake (eds.), Ecology of Biological Invasions of North America and Hawaii, 341
- Moore, D., et al. (eds.), Developmental Biology of Higher Fungi, 92
- Moore, J. W., The Changing Environment, 336
- Moore, P. D., and S. B. Chapman (eds.), Methods in Plant Ecology, 2nd ed., 199
- Moore, P. G., and R. Seed (eds.), The Ecology of Rocky Coasts, 334
- Morest, D. K., and J. A. Winer, The Comparative Anatomy of Neurons: Homologous Neurons in the Medial Geniculate Body of the Opossum and the Cat, 343
- Morris, S. C., et al. (eds.), The Origins and Relationships of Lower Invertebrates, 99
- Moshkin, V. A. (ed.), Castor, 194
- Mössbauer Spectroscopy and Its Applications, by T. E. Cranshaw et al., 357
- Motivational Systems, by F. Toates, 346
- Moutschen, J., Introduction to Genetic Toxicology (transl. by J. Moutschen), 82
- Movements of the Hand, by C. G. Phillips, 353
- Mulcahy, D. L., et al. (eds.), Biotechnology and Ecology of Pollen, 93
- Mycotoxins and Phycotoxins, ed. by P. S. Steyn and R. Vleggaar, 71
- Nathan, R. D. (ed.), Cardiac Muscle: The Regulation of Excitation and Contraction, 474
- National Marine Fisheries Service, National Oceanic and Atmospheric Administration, and the United States Department of Commerce (sponsored by), Ontogeny and Systematics of Fishes, 105
- Natural Resistance of Plants to Pests: Roles of Allelochemicals, ed. by M. B. Green and P. A. Hedin, 199
- Natural Selection in the Wild, by J. A. Endler, *lead review*, 295
- Nault, L. R., and J. G. Rodriguez (eds.), The Leafhoppers and Planthoppers, 201
- Navigation behavior in birds, development of orientation and, *article*, 1
- Neboiss, A., Atlas of Trichoptera of the SW Pacific-Australian Region, 101
- Needham, J., Science and Civilisation in China, Vol. 6 (Biology and Biological Technology, Part I: Botany), 59
- Neiss, W. F., Ultracytochemistry of Intracellular Membrane Glycoconjugates, 184
- Nemesis: The Death-Star and Other Theories of Mass Extinction, by D. Goldsmith, 68
- Nentwig, W. (ed.), Ecophysiology of Spiders, 452
- Nettleship, D. N., and T. R. Birkhead (eds.), The Atlantic Alcidae, 107
- Neural Sciences, *book reviews*, 117, 218, 343, 460
- Neuromethods, Series 1: Neurochemistry, ed. by A. A. Boulton et al., Vol. 5 (Neurotransmitter Enzymes), 118
- Neutral Theory of Molecular Evolution, by M. Kimura, 435
- New Genetics and Clinical Practice, by D. J. Weatherall, 2nd ed., 314
- New Insights into Cell and Membrane Transport Processes, ed. by G. Poste and S. T. Crooke, 313
- Neyra, C. A. (ed.), Biochemical Basis of Plant Breeding, Vol. I (Carbon Metabolism), 182
- Nicholls, J. G., The Search for Connections: Studies of Regeneration in the Nervous System of the Leech, 463
- Noden, D. M., and A. de Lahunta, The Embryology of Domestic Animals, 85
- Noise (thermal), and biological information, *article*, 141
- Norbert Wiener: Collected Works with Commentaries, ed. by P. Masani, Vol. IV (Cybernetics, Science, and Society; Ethics, Aesthetics, and Literary Criticism; Book Reviews and Obituaries), 172
- Norman, D., The Illustrated Encyclopedia of Dinosaurs, 428
- Norton, B. G. (ed.), The Preservation of Species, 177
- Nuccitelli, R. (ed.), Ionic Currents in Development, 85
- Nuclear Magnetic Resonance, ed. by H. F. Linskens and J. F. Jackson, 328

- Nudibranchs of Southern Africa, by T. Gosliner, 451
- Nurse, G. T., et al., The Peoples of Southern Africa and Their Affinities, 125
- Offspring Sex Ratios in Parasitoid Wasps, by B. H. King, *article*, 367
- Ogilvie, M. B., Women in Science: Antiquity through the Nineteenth Century, 301
- Ohno, A., and S. Ushida, Mechanistic Models of Asymmetric Reductions, 358
- Old, R. W., and S. B. Primrose, Principles of Gene Manipulation: An Introduction to Genetic Engineering, 3rd ed., 68
- Olfactory orientation and bird navigation, *article*, 31
- Olsen, R. W., and J. C. Venter (eds.), Benzodiazepine/GABA Receptors and Chloride Channels: Structural and Functional Properties, 309
- On Competition, by C. T. de Wit, 82
- On the Economy of Plant Form and Function, ed. by T. J. Givnish, 327
- O'Neill, R. V. et al., A Hierarchical Concept of Ecosystems, 213
- Ontogeny and Systematics of Fishes, sponsored by the National Marine Fisheries Service, National Oceanic and Atmospheric Administration, and the United States Department of Commerce, 105
- Ontogeny of Information, by S. Oyama, 227
- Ontogeny of Olfaction, ed. by W. Breipohl, 462
- Opioid Analgesics: Chemistry and Receptors, by A. F. Casy and R. T. Parfitt, 355
- Orchid Biology: Reviews and Perspectives, IV, ed. by J. Arditti, 446
- Orientation (development of) and navigation behavior in birds, *article*, 1
- Orientation (olfactory) and bird navigation, *article*, 31
- Origins and Relationships of Lower Invertebrates, ed. by S. C. Morris et al., 99
- Origins of Life, by F. Dyson, 305
- Ortiz de Montellano, P. R. (ed.), Cytochrome P-450, 73
- Our Radiant World, by D. W. Lillie, 356
- Oxford Surveys in Evolutionary Biology, ed. by R. Dawkins and M. Ridley, Vol. 1 (1984), Vol. 2, 80
- Oxford Surveys of Plant Molecular and Cell Biology, ed. by B. J. Mifflin, Vol. 1, Vol. 2 (1985), 75
- Oyama, S., The Ontogeny of Information, 227
- Padian, K. (ed.), The Beginning of the Age of Dinosaurs, 428
- Palade, G. E., et al. (eds.), Annual Review of Cell Biology, Vol. 1 (1985), 312
- Paleontology, *book reviews*, 66, 179, 428
- Palm, G., and A. Aertsen (eds.), Brain Theory, 121
- Panel on Cell Biology et al., Cell Biology: Basic Research and Applications, 312
- Parasitoid wasps, offspring sex ratios in, *article*, 367
- Partition of Cell Particles and Macromolecules, by P. Å. Albertsson, 3rd ed., 74
- Paxinos, G., and C. Watson, The Rat Brain in Stereotaxic Coordinates, 2nd ed., 345
- Payne, T. L., et al. (eds.), Mechanisms in Insect Olfaction, 220
- Pedigree Analysis in Human Genetics, by E. A. Thompson, 123
- People of the Desert and Sea, by R. S. Felger and M. B. Moser, 126
- Peoples of Southern Africa and Their Affinities, by G. T. Nurse et al., 125
- Peptides of Poisonous *Amanita* Mushrooms, by T. Wieland, 308
- Pereskia* (Cactaceae), by B. E. Leuenberger, 327
- Pest Control: Operations and Systems Analysis in Fruit Fly Management, ed. by M. Mangel et al., 329
- Peters, J. A., and B. Orejas-Miranda, Catalogue of the Neotropical Squamata (Part I, Snakes), rev. ed., 332
- Peters, J. A., and R. Donoso-Barros, Catalogue of the Neotropical Squamata (Part II, Lizards and Amphisbaenians), rev. ed., 332
- Pettigrew, J. D., et al. (eds.), Visual Neuroscience, 461
- Pheasants of the World, by P. A. Johnsgard, 203
- Phenetics: Evolution, Population, Trait, by A. V. Yablokov (transl. by M. J. Hall), 440
- Phillips, C. G., Movements of the Hand, 353
- Phillips, D. R., and M. A. Schuman (eds.), Biochemistry of Platelets, 354
- Phillips, S. M., and M. R. Escobar (eds.), The Reticuloendothelial System: A Comprehensive Treatise, Vol. 9 (Hypersensitivity), 473
- Philosophy Gone Wild, by H. Rolston III, 217
- Phosphoinositides and Receptor Mechanisms, ed. by J. W. Putney, Jr., 434
- Photomorphogenesis in Plants, ed. by R. E. Kendrick and G. H. M. Kronenberg, 445
- Photosynthesis: Metabolism, Control, and Physiology, by D. W. Lawlor, 448
- Photosynthetic Mechanisms and the Environment, ed. by J. Barber and N. R. Baker, 326

- Physiological Ecology of Animals, by R. M. Sibly and P. Calow, 455
- Physiology of Membrane Disorders, ed. by T. E. Andreoli et al., 2nd ed., 128
- Pianka, E. R., Ecology and Natural History of Desert Lizards, 114
- Pick, T. (ed.), Venoms of the Hymenoptera: Biochemical, Pharmacological and Behavioural Aspects, 331
- Piltdown Inquest, by C. Blinderman, 349
- Pineal Research Reviews, ed. by R. J. Reiter, Vol. 4, 105
- Pirates of the Cell, by A. Scott, 87
- Pitcher, T. J. (ed.), The Behavior of Teleost Fishes, 122
- Plankton Dynamics of the Southern California Bight, ed. by R. W. Eppley, 111
- Plant Cell Culture Technology, ed. by M. M. Yeoman, 93
- Plant Chimeras, by R. A. E. Tilney-Bassett, 446
- Plant Growth Substances 1985, ed. by M. Bopp, 196
- Plant Membranes, by D. G. Robinson, 75
- Plant Resources of Arid and Semiarid Lands: A Global Perspective, ed. by J. R. Goodin and D. K. Northington, 114
- Plant Tissue Culture and Its Agricultural Applications, by L. A. Withers and P. G. Alderson, 324
- Plasma Fibronectin: Structure and Function, ed. by J. McDonagh, 72
- Plasticity in Plants, ed. by D. H. Jennings and A. J. Trewavas, 193
- Poindexter, J. S., and E. R. Leadbetter (eds.), Bacteria in Nature, Vol. 2 (Methods and Special Applications in Bacterial Ecology), 444
- Polunin, O., and M. Walters, A Guide to the Vegetation of Britain and Europe, 96
- Population Biology and Evolution of Clonal Organisms, ed. by J. B. C. Jackson et al., 212
- Population Biology, by A. V. Yablokov, 339
- Population Dynamics of Rabies in Wildlife, ed. by P. J. Bacon, 108
- Population Genetics, by F. B. Christiansen and M. W. Feldman, 187
- Porter, R., and J. Whelan (eds.), Synthetic Peptides as Antigens, 181
- Post, J. D., Food Shortage, Climatic Variability, and Epidemic Disease in Preindustrial Europe, 63
- Poste, G., and S. T. Crooke (eds.), New Insights into Cell and Membrane Transport Processes, 313
- Practical Ecology for Geography and Biology: Survey, Mapping and Data Analysis, by D. D. Gilbertson et al., 337
- Practical Estuarine Chemistry: A Handbook, ed. by P. C. Head, 109
- Practical Guide to Enzymology, by C. H. Suelter, 73
- Premack, D., Gavagai! or the Future of the Animal Language Controversy, 347
- Preservation of Species, ed. by B. G. Norton, 177
- Priestly, D. A., Seed Aging, 196
- Primate Evolution, ed. by J. G. Else and P. C. Lee, Vol. 1, 451
- Principles of Gene Manipulation: An Introduction to Genetic Engineering, by R. W. Old and S. B. Primrose, 3rd ed., 68
- Principles of Neural Science, ed. by E. R. Kandel and J. H. Schwartz, 2nd ed., 117
- Proceedings of the Fifth ASEAN Orchid Congress Seminar, ed. by A. N. Rao, 195
- Proceedings of the Nineteenth European Marine Biology Symposium, Plymouth, Devon, U. K., 16-21 September, 1984, ed. by P. E. Gibbs, 112
- Progress in Sensory Physiology, by D. R. F. Irvine, Vol. 7 (The Auditory Brainstem), 219
- Prospects in Cell Biology, ed. by A. V. Grimstone et al., 50
- Protein Compartmentalization, ed. by A. W. Strauss et al., 180
- Proteinase Inhibitors, ed. by A. J. Barrett and G. Salvesen, 433
- Provenzano, A. J., Jr. (ed.), The Biology of Crustacea, Vol. 10 [Economic Aspects (Fisheries and Culture)], 335
- Provine, W. (ed.), Evolution: Selected Papers, by S. Wright, 435
- Provine, W. B., Sewall Wright and Evolutionary Biology, *lead review*, 287
- Prudhoe, S., A Monograph on Polyclad Turbellaria, 206
- Psychological aspects of hypothesis testing in ecology, relation to theory maturation, *article*, 397
- Ptashne, M., A Genetic Switch: Gene Control and Phage Lambda, 77
- Pupil, by E. Alexandridis (transl. by T. Telger), 126
- Purcell, R. W., and S. J. Gould, Illuminations: A Bestiary, 306
- Putney, J. W., Jr. (ed.), Phosphoinositides and Receptor Mechanisms, 434
- Quartet of Volumes on Genetics and Evolution [*a consideration of four books*], by B. Glass, D. L. Hull, E. O. Wiley, and D. W. Schemske, *lead review*, 287

- Ragan, C. I., and R. J. Cherry (eds.), *Techniques for the Analysis of Membrane Proteins*, 307
- Raghavan, V., *Embryogenesis in Angiosperms: A Developmental and Experimental Study*, 86
- Rancour-Laferrriere, D., *Signs of the Flesh*, 351
- Ransom, R., and R. J. Matela, *Computer Graphics in Biology*, 359
- Rao, A. N. (ed.), *Proceedings of the Fifth ASEAN Orchid Congress Seminar*, 195
- Rat Brain in Stereotaxic Coordinates, by G. Paxinos and C. Watson, 2nd ed., 345
- Rawlins, R. G., and M. J. Kessler (eds.), *The Cayo Santiago Macaques: History, Behavior, and Biology*, 206
- Re, R. N., *Bioburst: The Impact of Modern Biology on the Affairs of Man*, 427
- Reaction-Diffusion Equations and Their Applications to Biology, by N. F. Britton, 427
- Receptors in Cellular Recognition and Developmental Processes, ed. by R. M. Gorczynski, 435
- Red Fox: The Catlike Canine, by J. D. Henry, 205
- Reddy, B. S., and L. A. Cohen (eds.), *Diet, Nutrition, and Cancer: A Critical Evaluation*, Vol. 1 (Macronutrients and Cancer), Vol. 2 (Micronutrients), 127
- Reed, A. (ed.), *Eider Ducks in Canada*, 212
- Regulation of Chloroplast Differentiation, ed. by G. Akoyunoglou and H. Senger, 198
- Reilly, P. R., *Involuntary Sterilization in the United States: A Surgical Solution*, *article*, 153
- Reiter, R. J. (ed.), *Pineal Research Reviews*, Vol. 4, 105
- Renault-Miskovsky, J., *L'environnement au temps de la préhistoire*, 349
- Ren'ch, B., *Biophilosophical Implications of Inorganic and Organismic Evolution*, 58
- Reproduction & Development, *book reviews*, 83, 188, 316, 441
- Reptiles—Their Latin Names Explained, by A. F. Gotch, 105
- Results of "Sikfökút Project" 1: Structure, Primary Production and Mineral Cycling, ed. by P. Jakucs (transl. by I. Kecskés), 341
- Reticuloendothelial System: A Comprehensive Treatise, ed. by S. M. Phillips and M. R. Escobar, Vol. 9 (Hypersensitivity), 473
- Retina: A Model for Cell Biology Studies, Part II, ed. by R. Adler and D. Farber, 433
- Revised Atlas of Eastern Canadian Seabirds, by R. G. B. Brown, 455
- Reynolds, V., et al. (eds.), *The Sociobiology of Ethnocentrism*, *commentary*, 415
- Rheinheimer, G., *Aquatic Microbiology* (transl. by N. Walker), 3rd ed., 191
- Rice Economy of Asia, by R. Barker and R. W. Herdt, 96
- Riddle, J. M., *Dioscorides on Pharmacy and Medicine*, 62
- Ridley, M., *Evolution and Classification: The Reformation of Cladism*, *lead review*, 293
- Riedl, R., *Begriff und Welt*, 425
- Rigby, P. W. J. (ed.), *Genetic Engineering* 5, 438
- Rinderer, T. E. (ed.), *Bee Genetics and Breeding*, 437
- Risley, M. S. (ed.), *Chromosome Structure and Function*, 78
- Roane, M. K., et al., *Chestnut Blight, Other Endothia Diseases, and the Genus Endothia*, 195
- Roberts, D. F., and G. F. De Stefano (eds.), *Genetic Variation and Its Maintenance with Particular Reference to Tropical Populations*, 440
- Robinson, D. G., *Plant Membranes*, 75
- Rogers, E., *Looking at Vertebrates*, 202
- Rogosa, M., et al., *Coding Microbiological Data for Computers*, 324
- Role of Freshwater Outflow in Coastal Marine Ecosystems, ed. by S. Skreslet, 209
- Rollinson, D., and R. M. Anderson (eds.), *Ecology and Genetics of Host-Parasite Interactions*, 186
- Rolston III, H., *Philosophy Gone Wild*, 217
- Roots of Molecular Medicine, ed. by R. P. Huemer, 225
- Rose, S., and L. Appignanesi (eds.), *Science and Beyond*, 52
- Roth, S., *Cells and Morphogenesis: The Next 20 Years*, *lead review of Prospects in Cell Biology*, ed. by A. V. Grimstone et al., 50
- Rothschild, M., et al., *A Colour Atlas of Insect Tissues Via the Flea*, 101
- Rouse, I., *Migrations in Prehistory*, 350
- Rubenstein, D. I., and R. W. Wrangham (eds.), *Ecological Aspects of Social Evolution*, 467
- Sakamoto, Y., and F. Isohashi (eds.), *Glucocorticoid Hormone: Mechanisms of Action*, 226
- Salmonid Age at Maturity, ed. by D. J. Meerburg, 336
- Salthe, S. N., *Evolving Hierarchical Systems: Their Structure and Representation*, 61
- Sandberg, A. A. (ed.), *The Y Chromosome, Part B (Clinical Aspects of Y Chromosome Abnormalities)*, 186
- Sarma, P., *The Freshwater Chaetophorales of New Zealand*, 92

- Satellite DNA, by T. Beridze, 179
- Scammon: Beyond the Lagoon, by L. B. Landauer, 453
- Schaechter, M., et al. (eds.), *The Molecular Biology of Bacterial Growth*, 190
- Schemske, D. W., *A Quartet of Volumes on Genetics and Evolution*, *lead review of* *Natural Selection in the Wild*, by J. A. Endler, 295
- Schleif, R., *Genetics and Molecular Biology*, 69
- Schlesinger, S., and M. J. Schlesinger (eds.), *The Togaviridae and Flaviviridae*, 322
- Schmidt-Koenig, K., *Bird Navigation: Has Olfactory Orientation Solved the Problem?*, *article*, 31
- Schoch, R. M., *Systematics, Functional Morphology and Macroevolution of the Extinct Mammalian Order Taeniodonta*, 67
- Schram, F. R., *Crustacea*, 201
- Science and Beyond, ed. by S. Rose and L. Appignanesi, 52
- Science and Civilisation in China, by J. Needham, Vol. 6 (*Biology and Biological Technology, Part I: Botany*), 59
- Science and Scientists: Where Are We Going?, by M. P. Griffin and P. D. Taylor, *lead review of* *Science and Beyond*, ed. by S. Rose and L. Appignanesi, 52
- Science and Society in Early America: Essays in Honor of Whitfield J. Bell, Jr., ed. by R. S. Klein, 423
- Science, Faith, and Politics, by J. Weinberger, 299
- Scott, A., *Pirates of the Cell*, 87
- Scott, J. A., *The Butterflies of North America: A Natural History and Field Guide*, 330
- Seabird Ecology, by R. W. Furness and P. Monaghan, 454
- Search for Connections: Studies of Regeneration in the Nervous System of the Leech, by J. G. Nicholls, 463
- Seasonal Adaptations of Insects, by M. J. Tauber et al., 101
- Sediments (marine), ecology of deposit-feeding animals in, *article*, 235
- Seed Aging, by D. A. Priestley, 196
- Selforganization, ed. by S. W. Fox, 173
- Semenza, G. (ed.), *Comprehensive Biochemistry*, Vol. 36 (*Personal Recollections. II.*), 311
- "Send Us a Lady Physician," ed. by R. J. Abram, 301
- Sequences of Proteins of Immunological Interest, by E. A. Kabat et al., 4th ed., 431
- Serious Questions: An ABC of Skeptical Reflections, by E. Chargaff, 424
- Sesbania in Agriculture, by D. O. Evans and P. P. Rotar, 450
- Sewall Wright and Evolutionary Biology, by W. B. Provine, *lead review*, 287
- Sex and Friendship in Baboons, by B. B. Smuts, 346
- Sex ratios (offspring) in parasitoid wasps, *article*, 367
- Sexual Selection and Animal Genitalia, by W. G. Eberhard, 100
- Shay, J. W. (ed.), *Cell and Molecular Biology of the Cytoskeleton*, 183
- Shorebirds, by P. Hayman et al., 332
- Sibly, R. M., and P. Calow, *Physiological Ecology of Animals*, 455
- Sigel, H. (ed.), *Metal Ions in Biological Systems*, Vol. 20 (*Concepts on Metal Ion Toxicity*), 130
- Signs of the Flesh, by D. Rancour-Laferriere, 351
- Silicon Biochemistry, ed. by D. Evered and M. O'Connor, 182
- Simic, M. G., et al. (eds.), *Mechanisms of DNA Damage and Repair*, 70
- Single Cell Marking and Cell Lineage in Animal Development, ed. by R. L. Gardner and P. A. Lawrence, 441
- Skalak, R., and S. Chien (eds.), *Handbook of Bioengineering*, 227
- Skreslet, S. (ed.), *The Role of Freshwater Outflow in Coastal Marine Ecosystems*, 209
- Slater, R. J. (ed.), *Experiments in Molecular Biology*, 69
- Smith, K. R., et al. (eds.), *Earth and the Human Future*, 171
- Smith, L. B., et al., *Begoniaceae: Part I: Illustrated Key; Part II: Annotated Species List*, 326
- Smith, M. M., and P. C. Heemstra (eds.), *Smiths' Sea Fishes*, 335
- Smith, R. V., *Development and Management of University Research Groups*, 358
- Smiths' Sea Fishes, ed. by M. M. Smith and P. C. Heemstra, 335
- Smol, J. P., et al. (eds.), *Diatoms and Lake Acidity*, 336
- Smuts, B. B., *Sex and Friendship in Baboons*, 346
- Sneath, P. H. A., et al. (eds.), *Bergey's Manual of Systematic Bacteriology*, Vol. 2, 87
- Snyder, L. H., Jr., and J. G. Bruce, *Field Guide to the Ferns and Other Pteridophytes of Georgia*, 328
- Social and Antisocial Behavior, by A. L. Hughes, *commentary*, 415
- Social Odours in Mammals, ed. by R. E. Brown and D. W. Macdonald, Vol. 1, Vol. 2, 348
- Sociobiology of Ethnocentrism, ed. by V. Reynolds et al., *commentary*, 415
- Soilborne Plant Pathogens, by G. W. Bruehl, 447

- Sokal, R. R., and F. J. Rohlf, *Introduction to Biostatistics*, 2nd ed., 476
- Solanaceae: *Biology and Systematics*, ed. by W. G. D'Arcy, 326
- Soulé, M. E. (ed.), *Conservation Biology: The Science of Scarcity and Diversity*, 212
- Spectroscopy and the Dynamics of Molecular Biological Systems, ed. by P. M. Bayley and R. E. Dale, 228
- Spinal Afferent Processing, ed. by T. L. Yaksh, 218
- Stanier, R. Y., et al., *The Microbial World*, 5th ed., 88
- Starfield, A. M., and A. L. Bleloch, *Building Models for Conservation and Wildlife Management*, 338
- State of the World, 1987, by L. Brown et al., 472
- Stead, I. M., et al., *Lindow Man: The Body in the Bog*, 469
- Steinback, K. E., et al. (eds.), *Molecular Biology of the Photosynthetic Apparatus*, 90
- Steinberg, M. S. (ed.), *Developmental Biology: A Comprehensive Synthesis*, Vol. 3 (The Cell Surface in Development and Cancer), 442
- Sterilization (involuntary) in the United States, *article*, 153
- Steroid Microbiology, by P. Z. Margalith, 324
- Stewart, B. A. (ed.), *Advances in Soil Science*, Vol. 4, 341
- Steyn, P. S., and R. Vleggaar (eds.), *Mycotoxins and Phycotoxins*, 71
- Stieve, H. (ed.), *The Molecular Mechanism of Photoreception*, 119
- Stone, A. R., and D. L. Hawksworth (eds.), *Coevolution and Systematics*, 436
- Storm over Biology, by B. D. Davis, 172
- Stratospheric Ozone Reduction, *Solar Ultraviolet Radiation and Plant Life*, ed. by R. C. Worrest and M. M. Caldwell, 216
- Strauss, A. W., et al. (eds.), *Protein Compartmentalization*, 180
- Studies on the Structure and Development of Vertebrates, by E. S. Goodrich, 104
- Sturkie, P. D. (ed.), *Avian Physiology*, 4th ed., 106
- Stuss, D. T., and D. F. Benson, *The Frontal Lobes*, 355
- Suelter, C. H., *A Practical Guide to Enzymology*, 73
- Sukatsch, D. A., and A. Dziengel, *Biotechnology: A Handbook of Practical Formulae*, 476
- Sulfur Dioxide and Vegetation: *Physiology, Ecology, and Policy Issues*, ed. by W. E. Winner et al., 89
- Surgical sterilization (involuntary) in the United States, *article*, 153
- Symbiosis: *An Introduction to Biological Associations*, by V. Ahmadjian and S. Paracer, 305
- Synthetic Peptides as Antigens, ed. by R. Porter and J. Whelan, 181
- Systematics and Economic Botany of the *Oenocarpaceae* (Palmae) Complex, by M. J. Balick, 325
- Systematics, Breeding and Seed Production of Potatoes, ed. by A. Ya. Kameraz (transl. by V. S. Kothekar), 94
- Systematics, Functional Morphology and Macroevolution of the Extinct Mammalian Order Taeniodonta, by R. M. Schoch, 67
- Systems Analysis and Simulation in Wildlife and Fisheries Sciences, by W. E. Grant, 214
- Sze, P., *A Biology of the Algae*, 91
- Takhtajan, A., *Floristic Regions of the World* (transl. by T. J. Crovello), 193
- Tate III, R. L. (ed.), *Microbial Autecology*, 459
- Tauber, M. J., et al., *Seasonal Adaptations of Insects*, 101
- Techniques for the Analysis of Membrane Proteins, ed. by C. I. Ragan and R. J. Cherry, 307
- Templets and the Explanation of Complex Patterns, by M. J. Katz, 318
- Temporal-Pattern Learning in Neural Models, by C. Torras i Genís, 464
- Thackrah, C. T., *The Effects of Arts, Trades, and Professions on Health and Longevity*, 125
- Theoretical Studies on Sex Ratio Evolution, by S. Karlin and S. Lessard, 82
- Theories of Human Evolution: *A Century of Debate, 1844-1944*, by P. J. Bowler, 302
- Theory maturation, hypothesis testing and, *article*, 397
- Thermal Noise and Biological Information, by H. A. Johnson, *article*, 141
- Thermodynamic Data for Biochemistry and Biotechnology, ed. by H.-J. Hinz, 131
- Thermophiles: *General, Molecular, and Applied Microbiology*, ed. by T. D. Brock, 321
- Thompson, E. A., *Pedigree Analysis in Human Genetics*, 123
- Thompson, M.-F., et al. (eds.), *Indian Ocean: Biology of Benthic Marine Organisms*, 111
- Tidal Mixing and Plankton Dynamics, ed. by M. J. Bowman et al., 208
- Tietjen, G. L., *A Topical Dictionary of Statistics*, 358
- Tilney-Bassett, R. A. E., *Plant Chimeras*, 446
- Timell, T. E., *Compression Wood in Gymnosperms*, Vols. 1, 2, 3, 449

- Tiner, R. W., Jr., *A Field Guide to Coastal Wetland Plants of the Northeastern United States*, 453
- To Utopia and Back: The Search for Life in the Solar System, by N. H. Horowitz, 304
- Toates, F., *Motivational Systems*, 346
- Togaviridae and Flaviviridae, ed. by S. Schlesinger and M. J. Schlesinger, 322
- Tomlinson, P. B., *The Botany of Mangroves*, 447
- Topical Dictionary of Statistics, by G. L. Tietjen, 358
- Topographic Histochemistry of the Cerebellum, by E. Marani, 344
- Torras i Genís, C., *Temporal-Pattern Learning in Neural Models*, 464
- Toxicology and Biological Monitoring of Metals in Humans, Including Feasibility and Need, by B. L. Carson et al., 471
- Trager, W., *Living Together: The Biology of Animal Parasitism*, 200
- Traveling Naturalists, by C. Lloyd, 60
- Trichomycetes, by R. W. Lichtwardt, 198
- Twigg, G., *The Black Death: A Biological Reappraisal*, 124
- Two Hemispheres-One Brain, ed. by F. Leporé et al., 345
- Tyler, S. (ed.), *Advances in the Biology of Turbellarians and Related Platyhelminthes*, 207
- Ulanowicz, R. E., *Growth and Development*, 337
- Ultracytochemistry of Intracellular Membrane Glycoconjugates, by W. F. Neiss, 184
- Unfinished Synthesis: Biological Hierarchies and Modern Evolutionary Thought, by N. Eldredge, 79
- United States, involuntary sterilization in the, *article*, 153
- Use of Time and Resources by Provisioned Troops of Monkeys: Social Behaviour, Time and Energy in the Barbary Macaque (*Macaca sylvanus* L.) at Gibraltar, by J. E. Fa, 107
- Usher, M. B. (ed.), *Wildlife Conservation Evaluation*, 338
- Uyeno, T., et al. (eds.), *Indo-Pacific Fish Biology*, 336
- Valdman, A. V. (ed.), *Drug Dependence and Emotional Behavior: Neurophysiological and Neurochemical Approaches* (transl. by L. R. Sandler), 120
- Valuing Wildlife: Economic and Social Perspectives, ed. by D. J. Decker and G. R. Goff, 458
- Van Woert, M. H., and E. Chung (eds.), *Cooperative Approaches to Research and Development of Orphan Drugs*, 124
- Vandenberg, S. G., et al., *The Heredity of Behavior Disorders in Adults and Children*, 470
- Vanishing Animals, by K. Benirschke, 306
- Varieties of Sexual Experience: An Anthropological Perspective on Human Sexuality, by S. G. Frayser, 125
- Vasil, I. K. (ed.), *Cell Culture and Somatic Cell Genetics of Plants*, Vol. 3 (Plant Regeneration and Genetic Variability), 448
- Venis, M., *Hormone Binding Sites in Plants*, 325
- Venoms of the Hymenoptera: Biochemical, Pharmacological and Behavioural Aspects, ed. by T. Piek, 331
- Vertebrate Reproduction, by V. Blüm (transl. by A. C. Whittle), 316
- Video Microscopy, by S. Inoué, 129
- Violent Forces of Nature, ed. by R. Maybury, 228
- Visual Neuroscience, ed. by J. D. Pettigrew et al., 461
- von Chamisso, A., *A Voyage around the World with the Romanzov Exploring Expedition in the Years 1815-1818 in the Brig Rurik, Captain Otto Von Kotzebue* (transl. and ed. by H. Kratz), 299
- von Keyserlingk, H. C., et al. (eds.), *Approaches to New Leads for Insecticides*, 103
- Voyage around the World with the Romanzov Exploring Expedition in the Years 1815-1818 in the Brig Rurik, Captain Otto Von Kotzebue, by A. von Chamisso (transl. and ed. by H. Kratz), 299
- Vygotsky and the Social Formation of the Mind, by J. V. Wertsch, 354
- Wallace, H. R. (ed.), *The Ecology of the Forests and Woodlands of South Australia*, 115
- Walter, H., and S.-W. Breckle, *Ecological Systems of the Geobiosphere* (transl. by S. Gruber), Vol. 2 (Tropical and Subtropical Zonobiomes), 460
- Walters, C., *Adaptive Management of Renewable Resources*, 340
- Walters, S. M., et al. (eds.), *The European Garden Flora*, Vol. 1 [Pteridophyta, Gymnospermae, Angiospermae—Monocotyledons (Part I)], 197
- Wasps (parasitoid), offspring sex ratios in, 367
- Weatherall, D. J., *The New Genetics and Clinical Practice*, 2nd ed., 314

- Weinberger, J., Science, Faith, and Politics, 299
- Weissmann, G., The Woods Hole Cantata: Essays on Science and Society, 61
- Welch, G. R. (ed.), The Fluctuating Enzyme, 309
- Wenner, A. M. (ed.), Factors in Adult Growth, 319
- (ed.), Larval Growth, 85
- Wertsch, J. V., Vygotsky and the Social Formation of the Mind, 354
- West, B. J., An Essay on the Importance of Being Nonlinear, 131
- Wetlands, by W. J. Mitsch and J. G. Gosselink, 210
- Whale and the Reactor, by L. Winner, 217
- Whales, Ice, and Men, by J. R. Bockstoce, 453
- Wharton, D. A., A Functional Biology of Nematodes, 100
- Wheeler, G. C., and J. N. Wheeler, The Ants of Nevada, 103
- Wiard, L. A., An Introduction to the Orchids of Mexico, 448
- Wieland, T., Peptides of Poisonous *Amanita* Mushrooms, 308
- Wilbur, K. M. (ed.), The Mollusca, Vol. 9 (Neurobiology and Behavior, Part 2), 344
- Wildlife Conservation Evaluation, ed. by M. B. Usher, 338
- Wiley, E. O., A Quartet of Volumes on Genetics and Evolution, *lead review* of Evolution and Classification: The Reformation of Cladism, by M. Ridley, 293
- Winner, L., The Whale and the Reactor, 217
- Winner, W. E., et al. (eds.), Sulfur Dioxide and Vegetation: Physiology, Ecology, and Policy Issues, 89
- Withers, L. A., and P. G. Alderson, Plant Tissue Culture and Its Agricultural Applications, 324
- Wolken, J. J., Light and Life Processes, 428
- Women in Science: A Report from the Field, ed. by J. B. Kahle, 424
- Women in Science: Antiquity through the Nineteenth Century, by M. B. Ogilvie, 301
- Wood, B., et al. (eds.), Major Topics in Primate and Human Evolution, 352
- Woods Hole Cantata: Essays on Science and Society, by G. Weissmann, 61
- Worrest, R. C., and M. M. Caldwell (eds.), Stratospheric Ozone Reduction, Solar Ultraviolet Radiation and Plant Life, 216
- Wright, S., Evolution: Selected Papers, ed. by W. Provine, 435
- Wylie, C. C. (ed.), Determinative Mechanisms in Early Development, 317
- Wynne-Edwards, V. C., Evolution through Group Selection, 439
- Y Chromosome, ed. by A. A. Sandberg, Part B (Clinical Aspects of Y Chromosome Abnormalities), 186
- Yablokov, A. V., Phenetics: Evolution, Population, Trait (transl. by M. J. Hall), 440
- , Population Biology, 339
- Yaksh, T. L. (ed.), Spinal Afferent Processing, 218
- Yanarella, E. J., and R. H. Ihara (eds.), The Acid Rain Debate: Scientific, Economic, and Political Dimensions, 116
- Yankee Botanist in the Carolinas, by E. Berkeley and D. S. Berkeley, 302
- Yeast Cell Biology, ed. by J. Hicks, 88
- Yeoman, M. M. (ed.), Plant Cell Culture Technology, 93
- Young, R. M., Darwin's Metaphor, 58
- Youvan, D. C., and F. Daldal (eds.), Microbial Energy Transduction, 307
- Zaitlin, M., et al. (eds.), Biotechnology in Plant Science: Relevance to Agriculture in the Eighties, 90
- Zoogeography of North American Freshwater Fishes, ed. by C. H. Hocutt and E. O. Wiley, 210
- Zoological Sciences, *book reviews*, 98, 200, 328, 450
- Zwinger, A., John Xántus: The Fort Tejon Letters 1857-1859, 172

